

SUSTAINABLE GROUNDWATER MANAGEMENT ACT



- **Sustainable Groundwater Management Act (SGMA)**

- On September 16, 2014, Governor Brown signed SB1168, AB1739, and SB1319 into law, enacting SGMA
- SGMA became effective on January 1, 2015

- **Groundwater Sustainability Agency (GSA) of Tehama County**

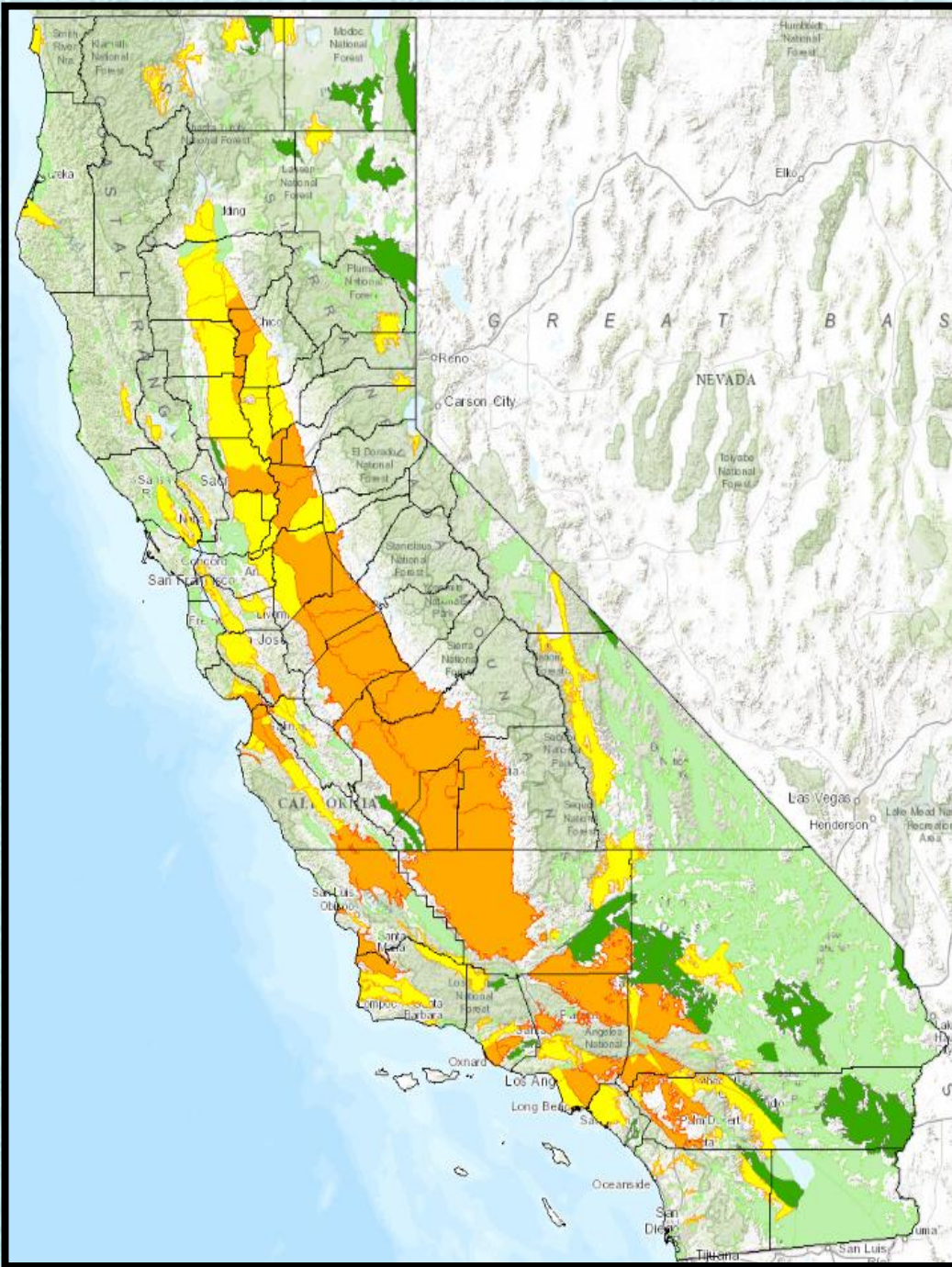
- **Current Drought and Groundwater Conditions**

What is SGMAs purpose?

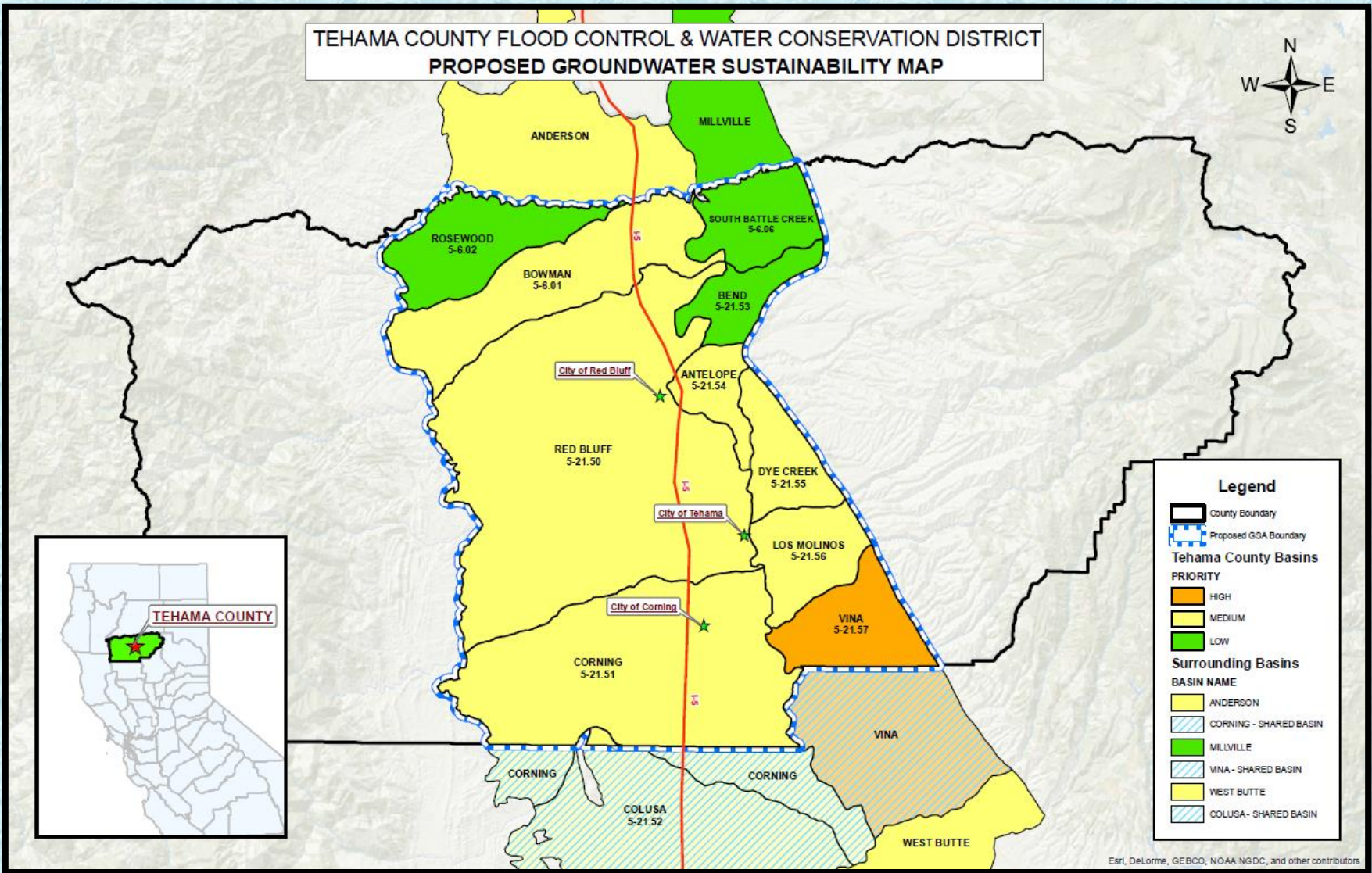
1. Promote sustainable management of groundwater basins
2. Enhance local management of groundwater, state to step in if necessary
3. Avoid or minimize impacts for land subsidence
4. Improve data collection and understanding of groundwater resources and management

1. Promote Sustainable Management Of Groundwater Basins

- **California currently has 43 High Priority and 84 Medium Priority Basins**
- **Increase in Population and Agricultural Production**



2. Enhance local management of groundwater, state to step in if necessary



Tehama County has 1 High Priority, 7 Medium Priority, and 3 Low Priority Basins

3. Avoid or minimize impacts for land subsidence



4. Improve data collection and understanding of groundwater resources and management



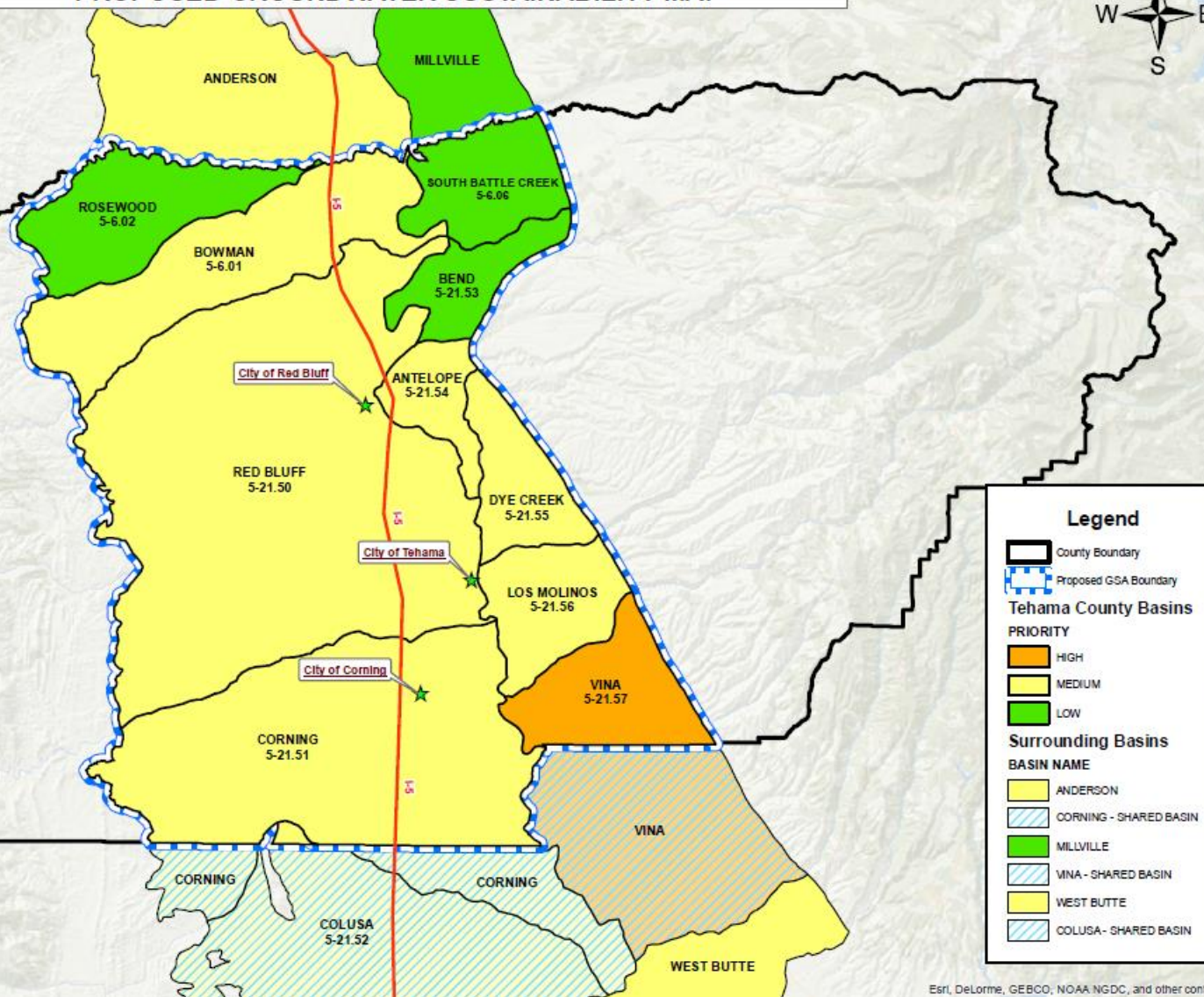
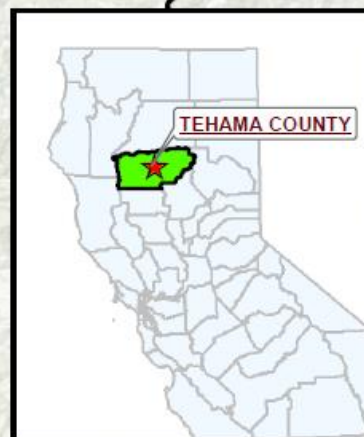
Sustainable Groundwater Management Act Timeline

- September 16, 2014: Groundwater management legislation became law
- January 1, 2015: Legislation went into effect
- June 30, 2017: Deadline to form a Groundwater Sustainability Agency(**GSA**)
- January 31, 2022: Groundwater Sustainability Plans(**GSP**) required for all high and medium priority groundwater basins not in Critical Overdraft
- January 31, 2042: Basins must achieve sustainability

Flood Control and Water Conservation District's Role

- Form a **Groundwater Sustainability Agency(GSA)** that covers all of the groundwater basins within Tehama County.
- The GSA will develop a **Groundwater Sustainability Plan(GSP)** that includes measurable objectives and milestones that will assist the District in achieving sustainability within 20 years of GSP adoption. This plan will be developed with public input and the process will be guided by the Board of Directors, a Groundwater Commission and a Technical Advisory Committee.

TEHAMA COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT PROPOSED GROUNDWATER SUSTAINABILITY MAP



Legend

- County Boundary
- Proposed GSA Boundary

Tehama County Basins

PRIORITY

- HIGH
- MEDIUM
- LOW

Surrounding Basins

BASIN NAME

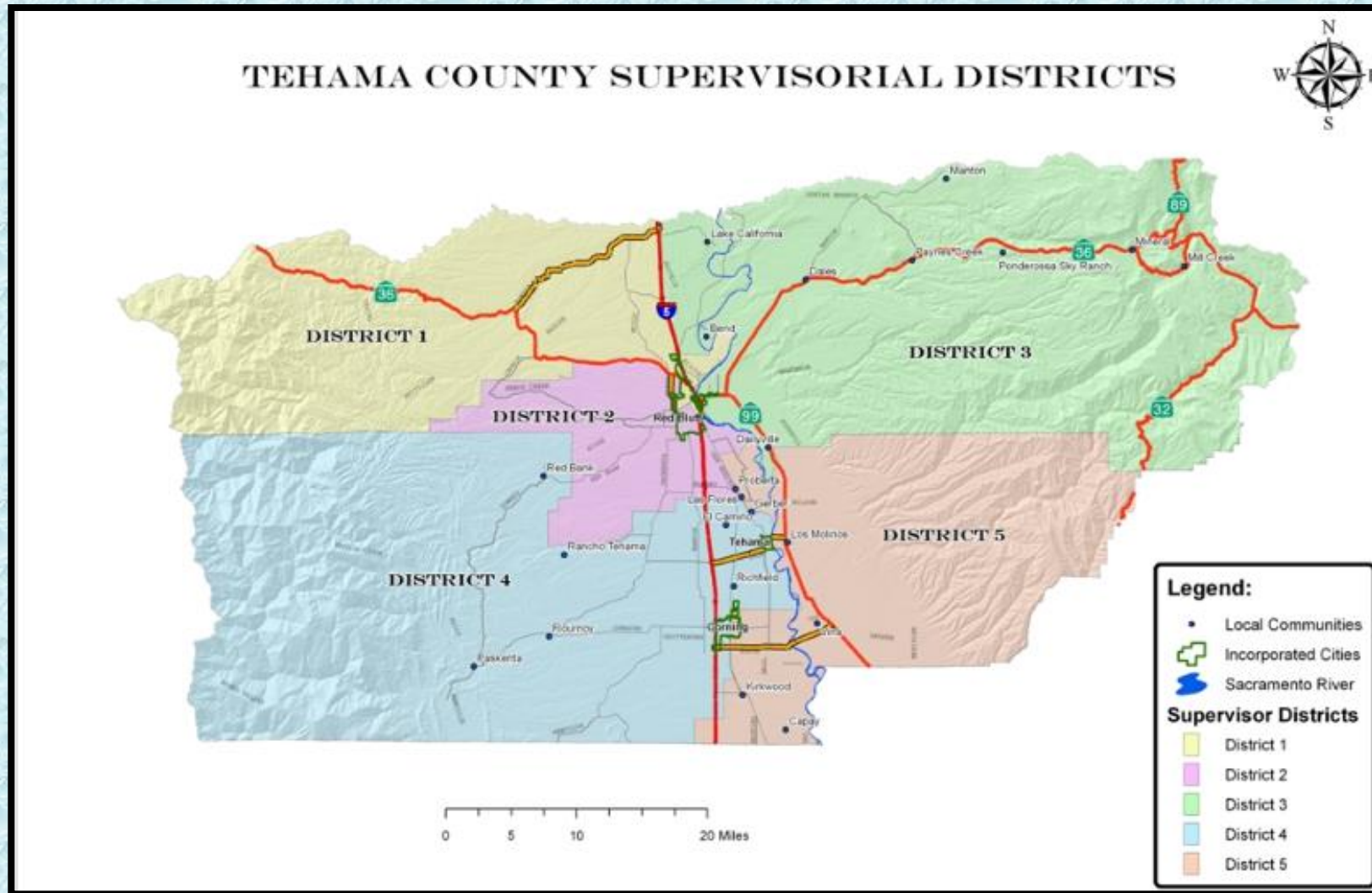
- ANDERSON
- CORNING - SHARED BASIN
- MILLVILLE
- VINA - SHARED BASIN
- WEST BUTTE
- COLUSA - SHARED BASIN

Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors

Proposed Governance Structure

- Governing Board – Tehama County Flood Control & Water Conservation District Board of Directors (County Board of Supervisors)
- Groundwater Commission (similar to Planning Commission)
- AB3030 Technical Advisory Committee (as needed)

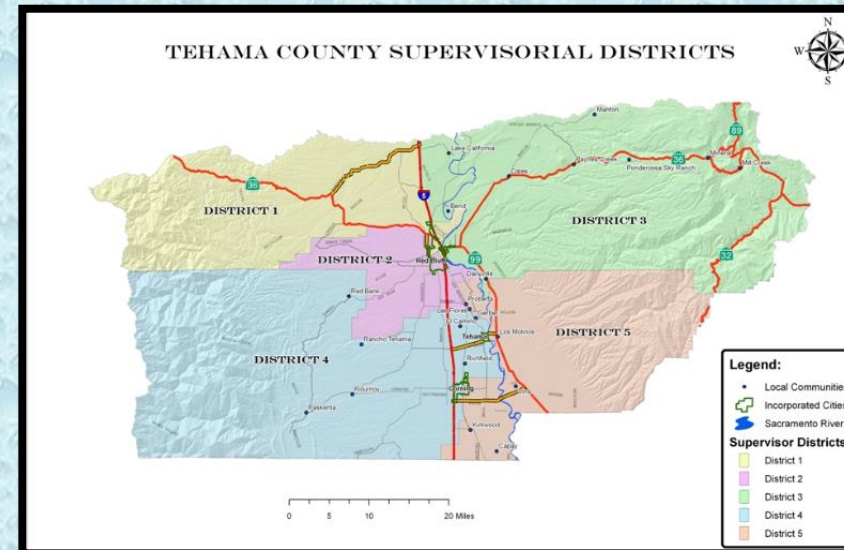
Governing Board – Tehama County Flood Control & Water Conservation District Board of Directors (County Board of Supervisors)



Groundwater Commission

- **The Commission will be made up of 11 members**
- **6 agencies will have designated seats on the commission.**
 - 1 – City of Corning (Appointed by City) – 773 million gallons per year
 - 1 – City of Red Bluff (Appointed by City) – 1.18 billion gallons per year
 - 1 – City of Tehama (Appointed by City) - 35 million gallons per year
 - 1 – El Camino Irrigation District (Appointed by District) – 2.28 billion gallons per year
 - 1 – Los Molinos Community Services District (Appointed by District) - 70 million gallons per year
 - 1 – Rio Alto Water District (Appointed by District) – 241 million gallons per year

- **5 additional members will be made up of 1 Representative from each County Supervisor District**
 - Recommendations to be made by the seated Groundwater Commission members and confirmed by the FCWCD Board of Directors.
 - Appointees will be expected to meet certain qualifications:
 - ✓ 2 members should represent surface water agencies/districts;
 - ✓ 2 members should represent private pumpers;
 - ✓ 1 member will be an “at large” representative;
 - ✓ No Agency or district shall be represented by more than 1 member on the Groundwater Commission



Groundwater Commission Duties

- Develop GSP and all GSA ordinances, rules, and regulations, including holding public hearings and making final recommendations to the Board of Directors.
- Conduct investigations to determine the need for groundwater management, monitor compliance and enforcement, and propose fee increases (if necessary) to the Board of Directors.
- Review all proposed grant applications, and advise Board of Directors regarding grant funding opportunities
- Decision-making authority for permits or similar entitlements issued by the GSA, e.g., well spacing (with appeal)
- Make quasi-judicial decisions in GSA enforcement matters (with appeal)

AB 3030 Groundwater Technical Advisory Committee

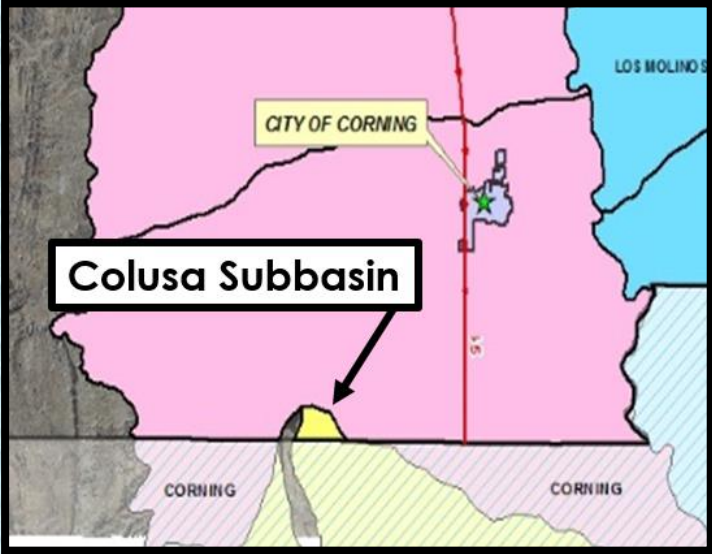
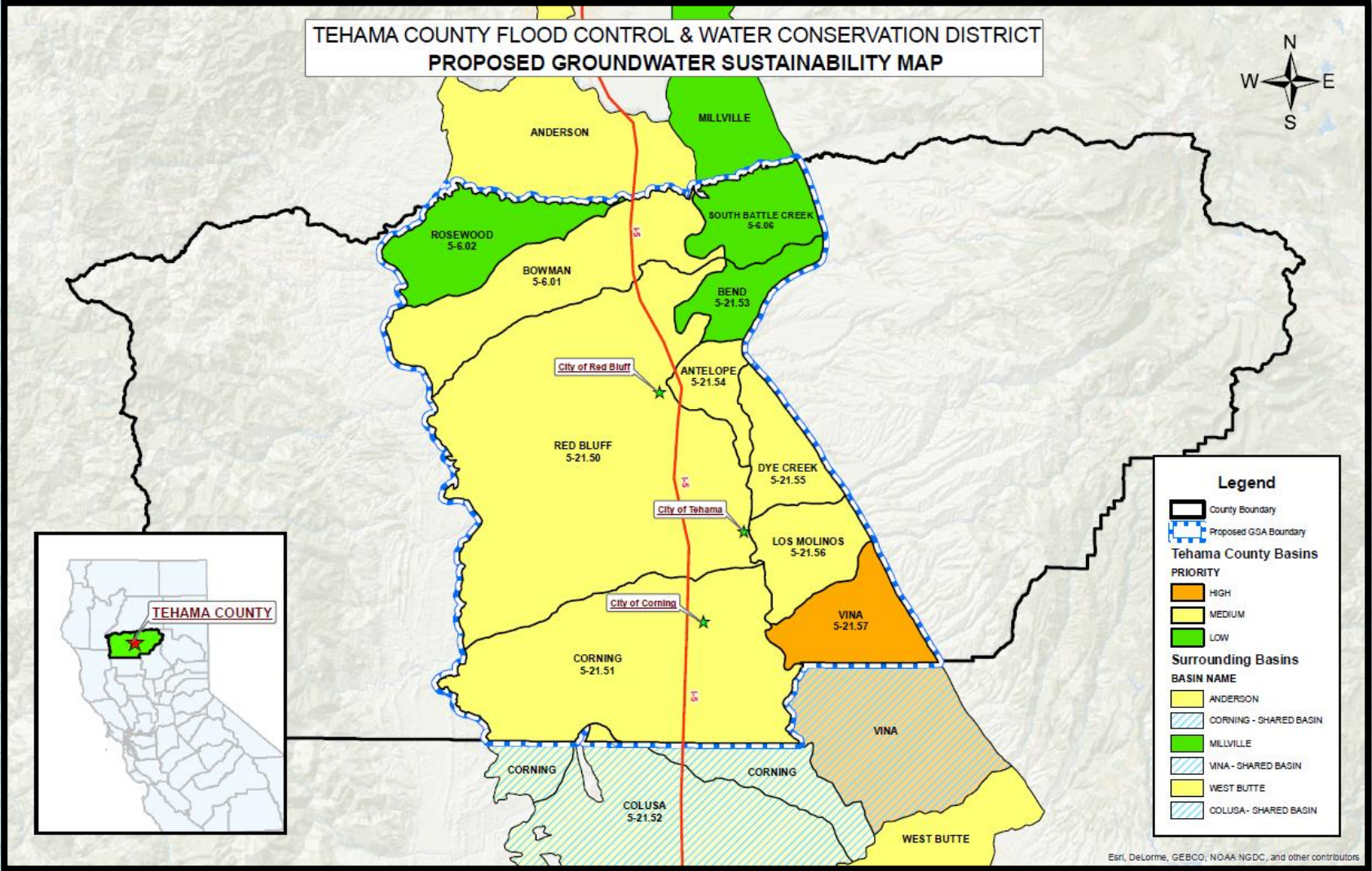
- Provide technical assistance as needed
- Committee is made up of 10 members
 - ✓ 1- City of Corning
 - ✓ 1- City of Red Bluff
 - ✓ 1- City of Tehama
 - ✓ 5 - Water users from the agricultural sector
 - 2 - Agriculture-related water districts
 - 3 - Representing private pumpers or diverters
 - ✓ 1 - Small Water Districts
 - ✓ 1 - Natural Resources Interest

Funding

Funding, resources, and staffing will be the primary responsibility of Flood Control & Water Conservation District (FCWCD), and will include:

- Staff assistance to Groundwater Commission and Board of Directors throughout the GSP development and implementation process.
- Where necessary, the Board of Directors will provide additional resources from FCWCD's existing funding or grant opportunities pursued by FCWCD
- The Board of Directors will apply for and receive grants to fund GSA activities (with the Commission's recommendation), including responsibility for executing and implementing grant contracts and associated requirements.
- Further revenue measures, if any, would be reviewed by the Commission prior to adoption by the Board of Directors (and will not be based on GSA participation).

Basin Boundary Adjustments



On February 11th 2016 the FCWCD became the exclusive GSA for the 11 groundwater subbasins or portions of those subbasins located within Tehama County

Next Steps

- Continue the Basin Boundary Adjustment process for Colusa subbasin that was submitted to the Department of Water Resources in March
- Start formation of the Groundwater Commission
- Continue participating in the development of the Groundwater Sustainability Plan regulations

Websites

- **Tehama County Flood Control and Water Conservation District:** <http://www.tehamacountywater.ca.gov>
- **Department of Water Resources – Sustainable Groundwater Management site:**
<http://www.water.ca.gov/groundwater/sgm/index.cfm>



Tehama County Public Works

9380 San Benito Avenue, Gerber, CA 96035-9701 Phone: (530) 385-1462

Engineering | Flood Control & Water Resources | Operations & Maintenance | Transportation Commission | Transit Agency Board | TRAX & Transit Information

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± Emergency Flood Information
± Groundwater Information
Groundwater Management
Groundwater Well Monitoring
± Meetings
± Surface Water
± Sustainable Groundwater Mgmt. Act
Sustainable Groundwater Mgmt. Act
Groundwater Sustainability Agency
Basin Boundary Adjustments
Groundwater Sustainability Plan
± Water & Environmental Agencies

Operations & Maintenance

Tehama County Flood Control & Water Conservation District

Ryan Teubert
Flood Control & Water Resources Manager
(530) 385-1462
rteubert@tcpw.ca.gov

The Tehama County Flood Control & Water Conservation District was originally established in 1957 by the Tehama County Flood Control and Water Conservation District Act. This Act defined the boundary and territory of the District as follows: "all that territory of the County of Tehama lying within the exterior boundaries thereof."

For the purposes of carrying out the goals and objectives established within the **AB3030 Groundwater Management Plan**, the boundaries of the plan area will include the County of Tehama and the Western Tehama Highlands Area, Eastern Tehama Highlands Area, and the Redding Groundwater Basin and Sacramento Valley Groundwater Basin to the extent that they lie within the jurisdiction of the District, but do not include any land outside Tehama County.

Sustainable Groundwater Management Act
On September 16, 2014, Governor Brown signed into law a package of bills (SB1168, AB1739 and SB1319) collectively called the Sustainable Groundwater Management Act. The Tehama County Flood Control and Water Conservation District has submitted the appropriate documents to become the Exclusive Groundwater Sustainability Agency for the 11 groundwater subbasins or the portions of those subbasins located within Tehama County. The District will move forward developing a Groundwater Sustainability Plan as required by the legislation before the January 31, 2022 deadline. Click to continue reading...

Statewide Mandatory Water Reductions Issued April 01, 2015
The State Water Resources Control Board (Water Board) shall impose restrictions to achieve a statewide 25% reduction in potable urban water usage through February 28, 2016. These restrictions will require water suppliers to California's cities and towns to reduce usage as compared to the amount used in 2013. Click to continue reading...

Integrated Regional Water Management Plan (IRWMP)
The purpose of this Integrated Regional Water Management Plan (IRWMP) is to document the regional water resource management conditions, needs and strategies; to describe the process and projects that will improve regional water resources management in the IRWM region. Click to continue reading...

2013 Coordinated AB3030 Groundwater Management Plan
The Tehama County Flood Control and Water Conservation District was formally directed to proceed with the preliminary development of a County-wide groundwater management plan by the District Board of Directors at the Regular Meeting of the Board held on April 25, 1995. Click to continue reading...

Tehama County Water Inventory & Analysis
The need for documentation of current water use, supply and management in Tehama County, and the resultant improved understanding of the resource led the Tehama County Flood Control and Water

SGM Sustainable Groundwater Management



Introduction

The Department of Water Resources (DWR) has developed a Strategic Plan for its Sustainable Groundwater Management (SGM) Program. DWR's SGM Program will implement the new and expanded responsibilities identified in the 2014 Sustainable Groundwater Management Act (SGMA). Some of these expanded responsibilities include: (1) developing regulations to revise groundwater basin boundaries; (2) adopting regulations for evaluating and implementing Groundwater Sustainability Plans (GSPs) and coordination agreements; (3) identifying basins subject to critical conditions of overdraft; (4) identifying water available for groundwater replenishment; and (5) publishing best management practices for the sustainable management of groundwater.

Announcements

🚨 GSA notification received
DWR has received a notification of formation of a Groundwater Sustainability Agency. View the notification [here](#).

🚨 Draft GSP Emergency Regulations Guide Now Available
A guide to understanding the Draft GSP Emergency Regulations is now available [here](#). *This guide does not serve as a substitute for the Draft GSP Emergency Regulations.

🚨 Draft Groundwater Sustainability Plan (GSP) Emergency Regulations and Public Meetings
Draft GSP Emergency Regulations have been released. View the regulations and information on public meetings and how to comment [here](#).

🚨 Draft GSP Emergency Regulation Webinar (March 24, 2016)

Legislative Oversight Hearing on State Implementation of SGMA
On February 23, 2016, there was a Legislative Oversight Hearing on State Implementation of SGMA. Watch the hearing [here](#).

Final List of Critically Overdrafted Basins
DWR has posted the Final List of Critically Overdrafted Basins. View the list [here](#).

Basin Boundary Modification Request Requirements and Procedures Webinar
A recording of the webinar to provide information regarding the **Basin Boundary Modification** Request submission procedures and requirements is available. Please view the recording and presentation [here](#).

Groundwater Sustainability Program Draft Strategic Plan

DWR has developed a *Draft Strategic Plan* for its Sustainable Groundwater Program. The draft plan describes DWR's responsibilities and vision for carrying out the Sustainable Groundwater Management Act, a package of laws that aim to protect the groundwater basins that provide more than half of the water Californians use in dry years. The draft plan outlines key actions DWR will undertake over the next several years to position itself to better support local agencies across California to achieve sustainable groundwater management. To read the plan, click

GROUNDWATER HOME

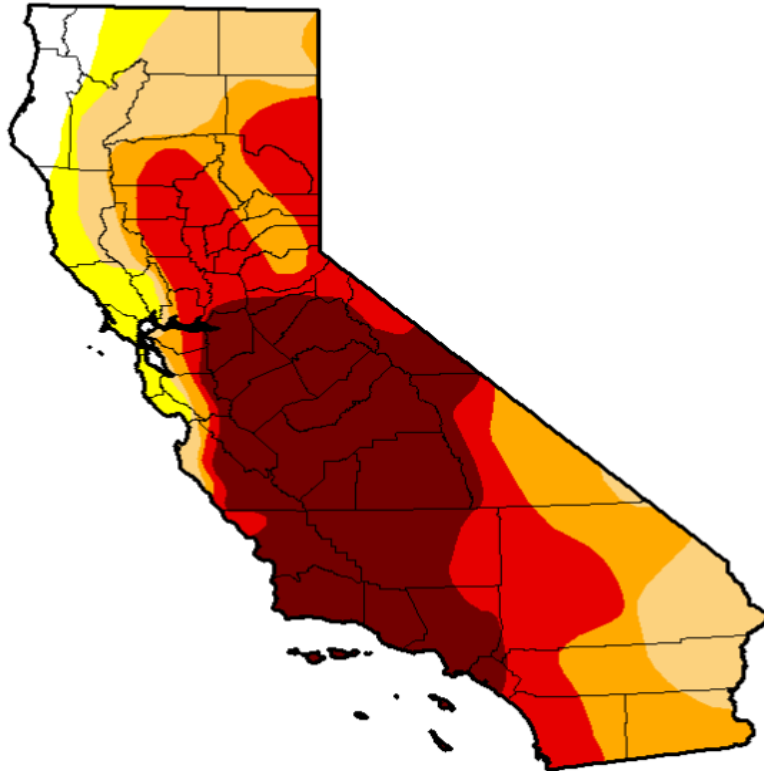
SUSTAINABLE GROUNDWATER MANAGEMENT

- » [Adjudicated Basin Reporting](#)
- » [Basin Boundary Modifications](#)
 - » [BBAT - Basin Boundary Assessment Tool](#)
 - » [BBMRS - Basin Boundary Modification Request System](#)
- » [Critically Overdrafted Basins](#)
- » [Communication and Outreach](#)
 - » [Advisory Groups](#)
 - » [Statewide SGMA Calendar](#)
 - » [Region Office Contacts](#)
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- » [Groundwater Sustainability Agencies](#)
 - » [GSA Formation Table](#)
 - » [GSA Interactive Map](#)
 - » [GSA Notice Revisions](#)
- » [Groundwater Sustainability Plan Regulations](#)
 - » [GSP Public Comments](#)
 - » [Best Management Practices](#)
- » [Initial Basin Prioritization](#)
- » [Resources](#)
 - » [Water Mgmt. Planning Tool](#)
 - » [SGWP Grant Program](#)
 - » [Facilitation Support Services](#)
 - » [SGMA Definitions](#)
 - » [Related Links](#)

SGMA Questions

DROUGHT INFORMATION AND CURRENT GROUNDWATER LEVELS

U.S. Drought Monitor California



April 5, 2016

(Released Thursday, Apr. 7, 2016)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	3.55	5.87	16.21	19.11	23.57	31.68
Last Week 3/29/2016	3.55	5.87	17.76	17.57	20.51	34.74
3 Months Ago 1/5/2016	0.00	2.67	9.78	18.49	24.22	44.84
Start of Calendar Year 12/29/2015	0.00	2.67	9.78	18.49	24.22	44.84
Start of Water Year 9/29/2015	0.14	2.53	4.97	21.29	25.08	46.00
One Year Ago 4/7/2015	0.15	1.74	4.67	26.84	22.28	44.32

Intensity:

D0 Abnormally Dry	D3 Extreme Drought
D1 Moderate Drought	D4 Exceptional Drought
D2 Severe Drought	

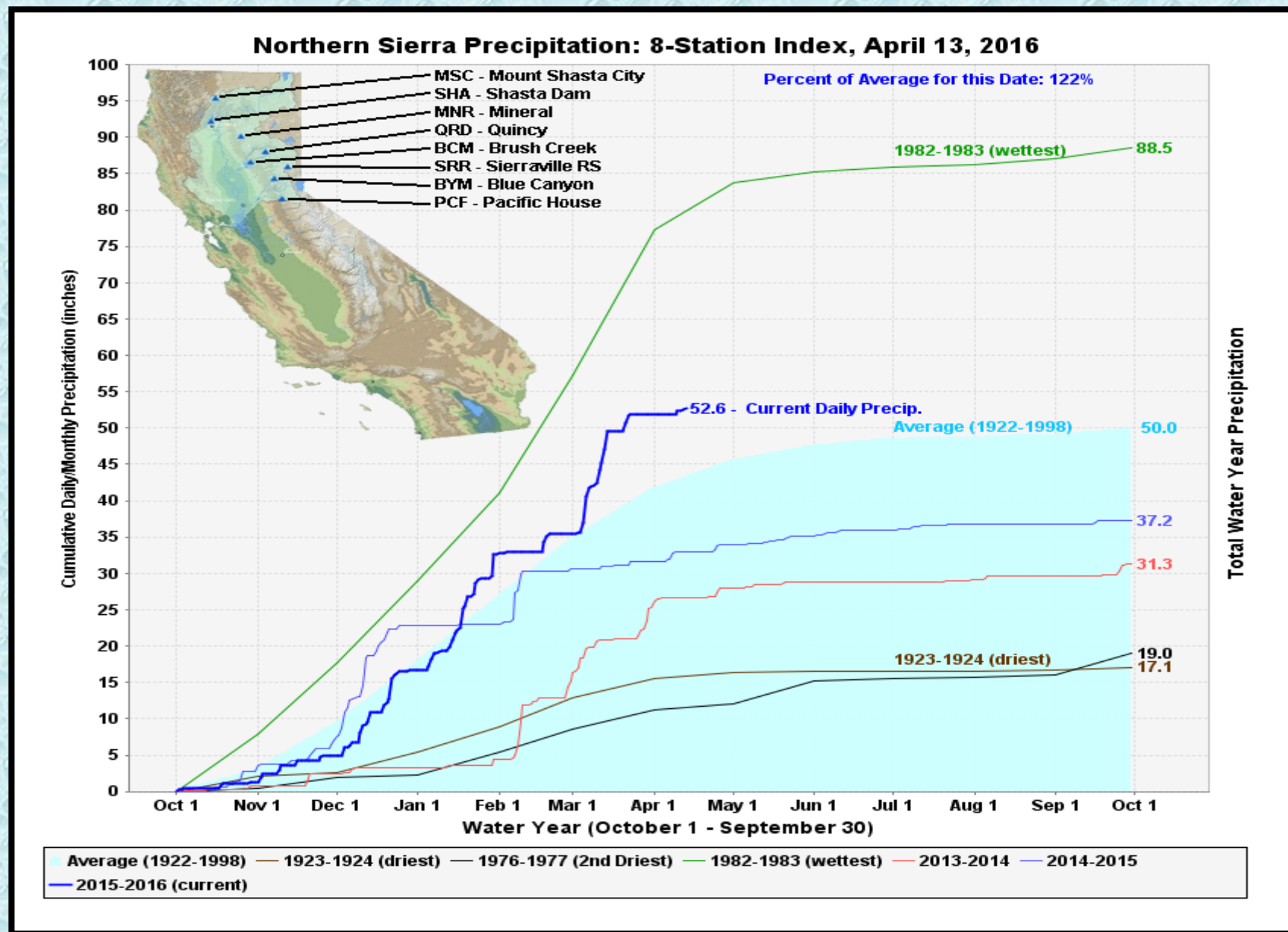
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author:

Richard Tinker
CPC/NOAA/NWS/NCEP



<http://droughtmonitor.unl.edu/>



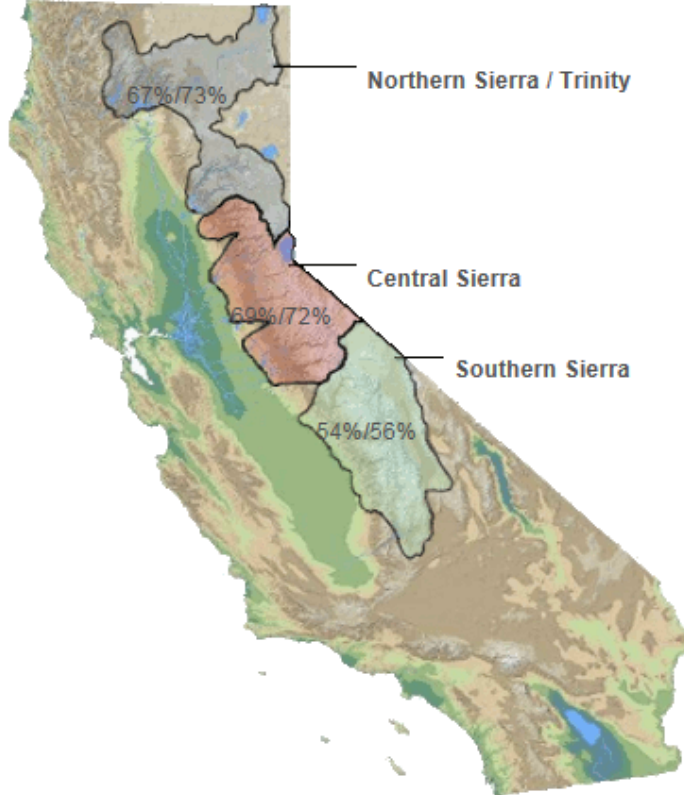


Snow Water Equivalents (inches)

Provided by the California Cooperative Snow Surveys

Data For: 14-Apr-2016

% Apr 1 Avg. / % Normal for this Date



Change Date :



14-Apr-2016

Refresh Data

NORTH

Data For: 14-Apr-2016

Number of Stations Reporting	26
Average snow water equivalent	19.0"
Percent of April 1 Average	67%
Percent of normal for this date	73%

CENTRAL

Data For: 14-Apr-2016

Number of Stations Reporting	40
Average snow water equivalent	20.1"
Percent of April 1 Average	69%
Percent of normal for this date	72%

SOUTH

Data For: 14-Apr-2016

Number of Stations Reporting	28
Average snow water equivalent	14.6"
Percent of April 1 Average	54%
Percent of normal for this date	56%

STATEWIDE SUMMARY

Data For: 14-Apr-2016

Number of Stations Reporting	94
Average snow water equivalent	18.1"
Percent of April 1 Average	64%
Percent of normal for this date	68%

[HTTP://CDEC.WATER.CA.GOV/CDECAPP/SNOWAPP/SWEQ.ACTION](http://cdec.water.ca.gov/CDECAPP/SNOWAPP/SWEQ.ACTION)

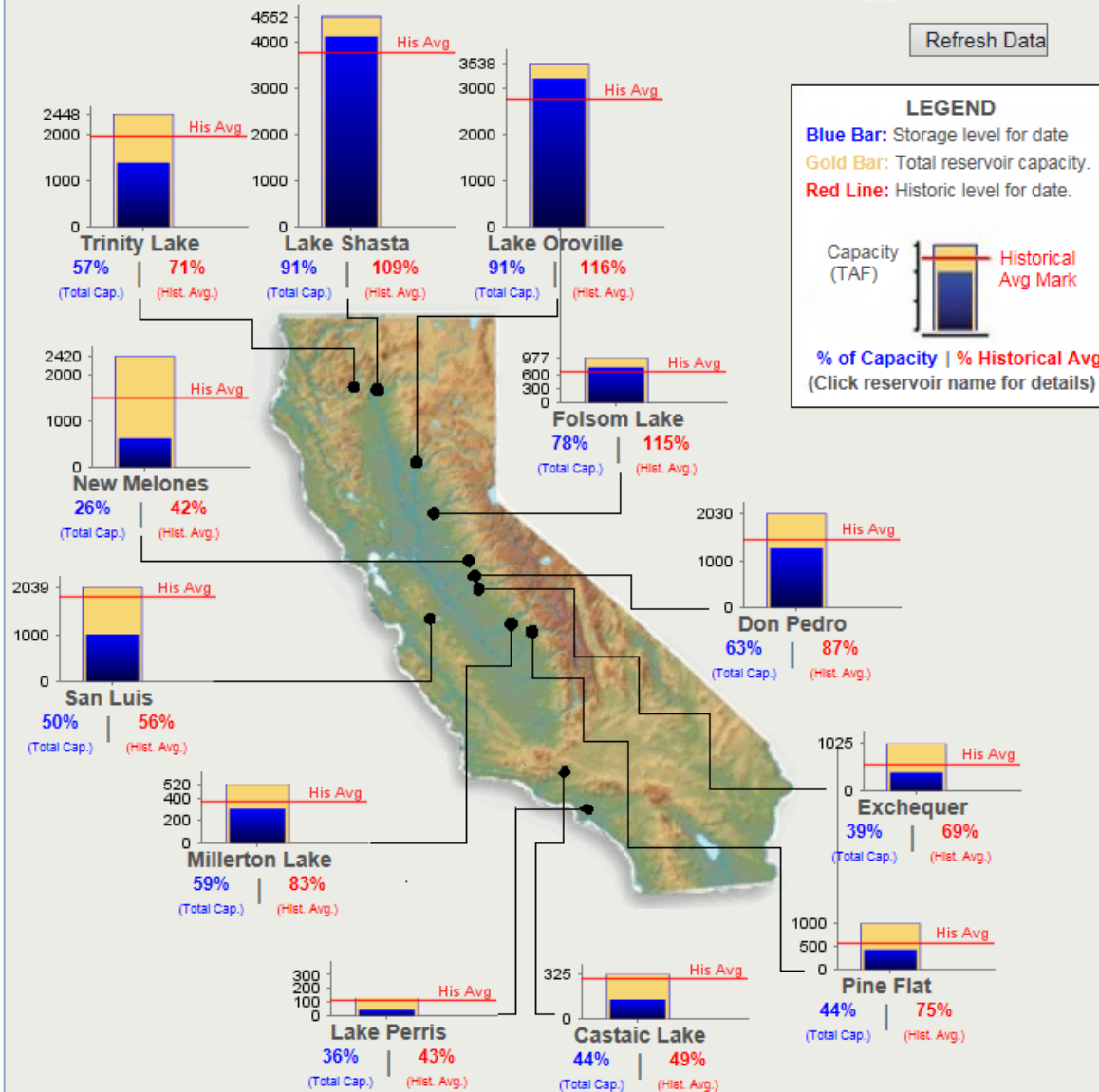
California Data Exchange Center - Reservoirs

CONDITIONS FOR MAJOR RESERVOIRS: 12-APR-2016

Data as of Midnight: 12-Apr-2016

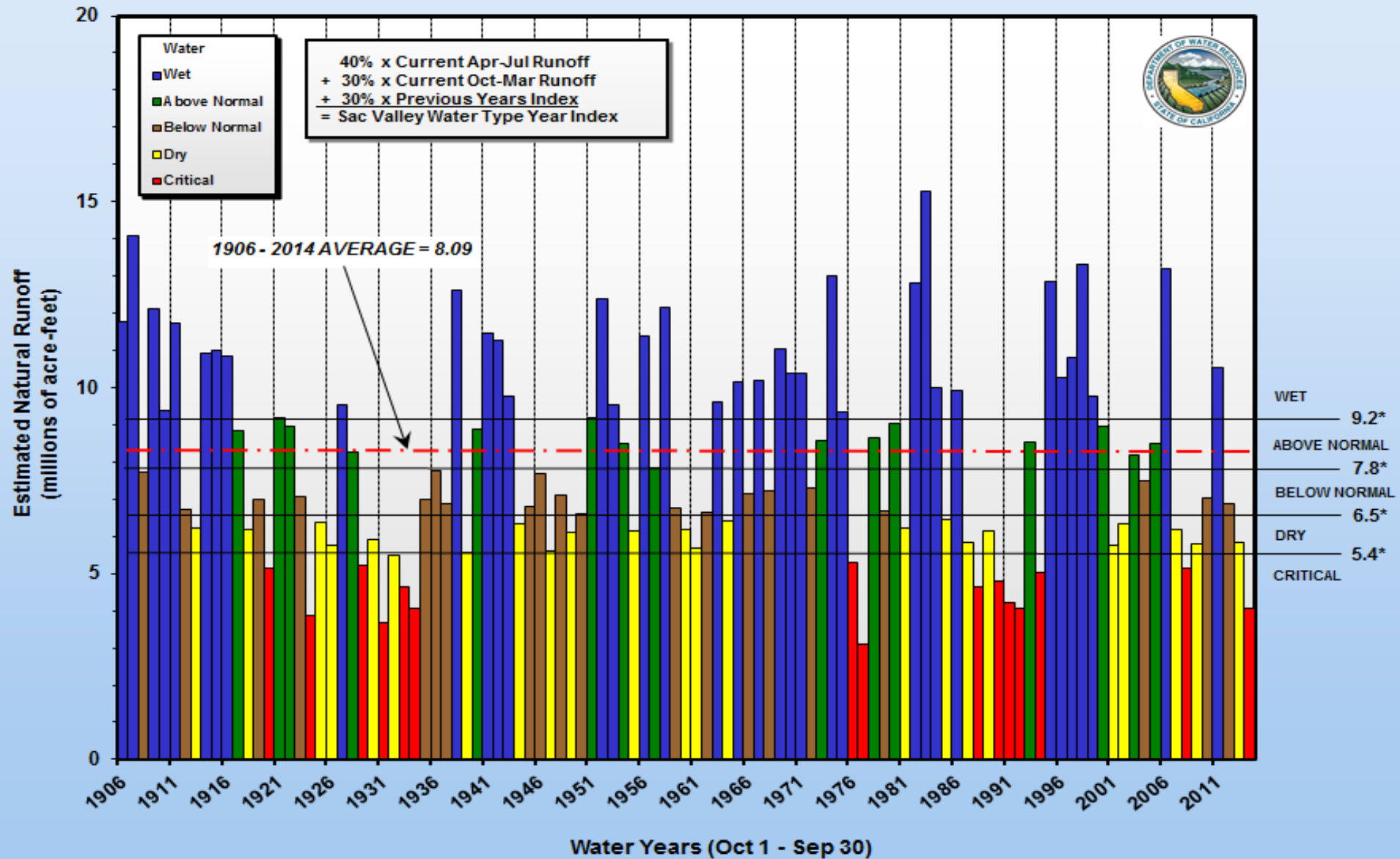
Change Date: 12-Apr-2016

Refresh Data



[HTTP://CDEC.WATER.CA.GOV/CDECAPP/RESAPP/GETRESGRAPHMAIN.ACTION](http://CDEC.WATER.CA.GOV/CDECAPP/RESAPP/GETRESGRAPHMAIN.ACTION)

SACRAMENTO VALLEY WATER YEAR TYPE INDEX 1906 - 2014

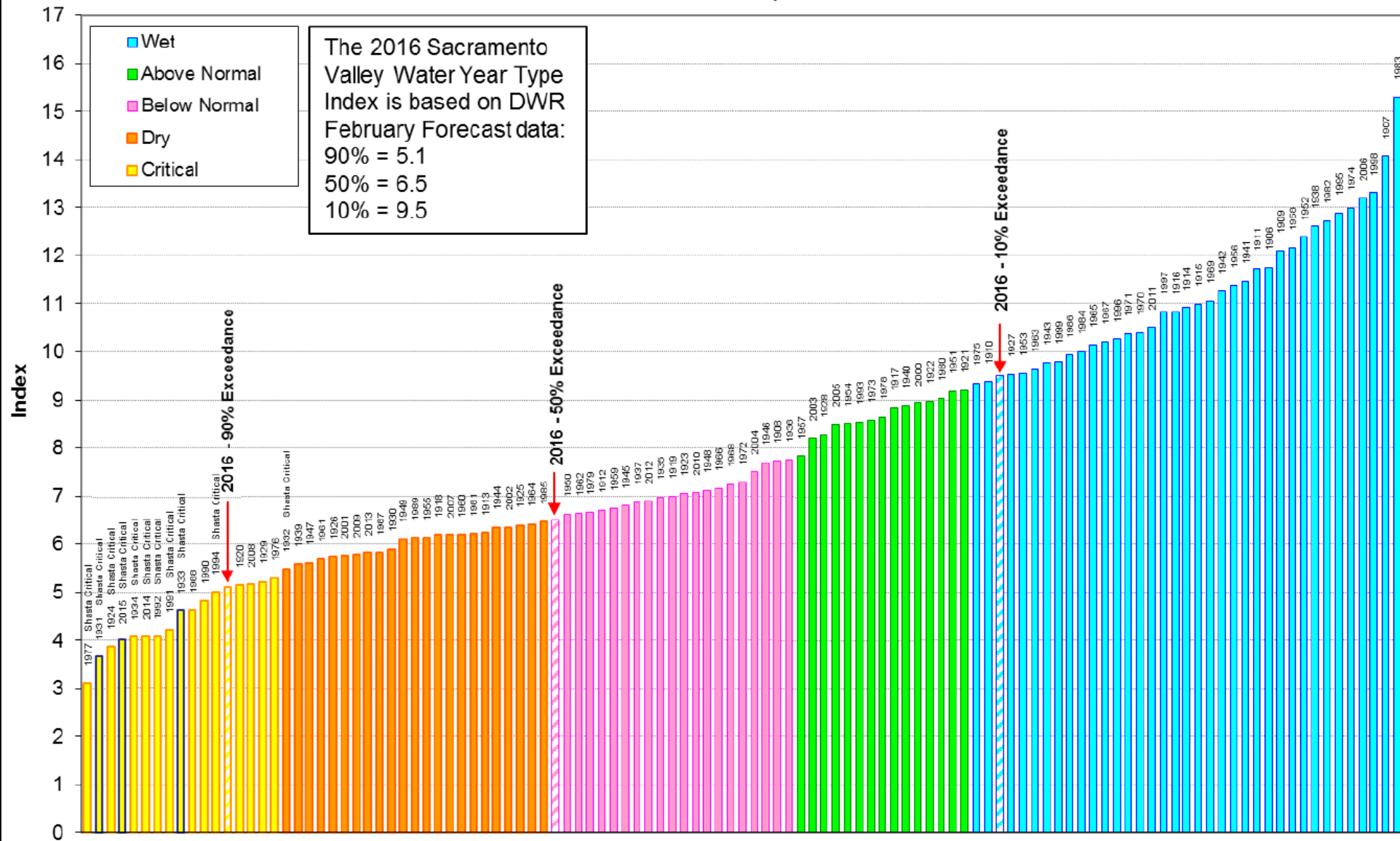


Source: California Department of Water Resources

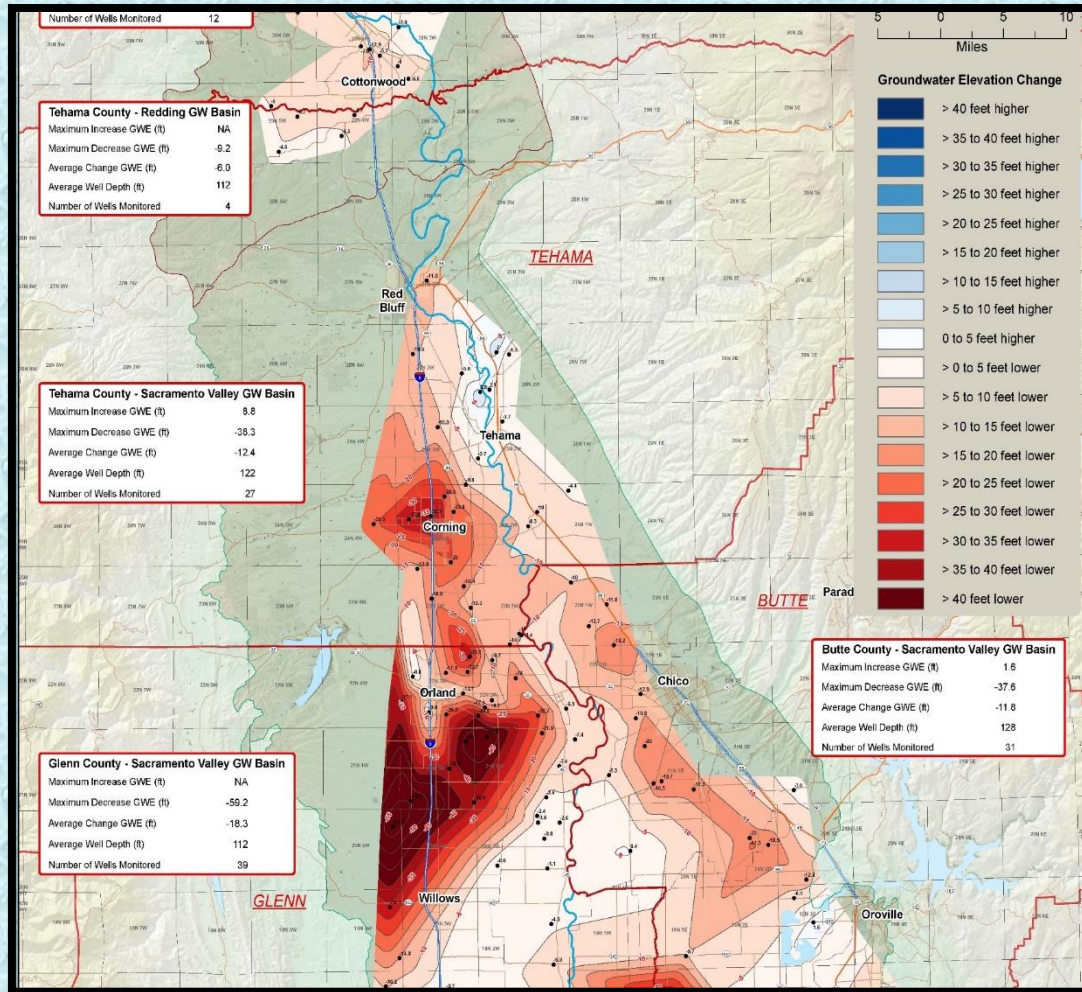
* Index based on flow in the million acre-feet

Sacramento Valley Year Type Index (40-30-30) 1906-2015 Sorted

Based on Observed Unimpaired Runoff



Groundwater Level Change Maps

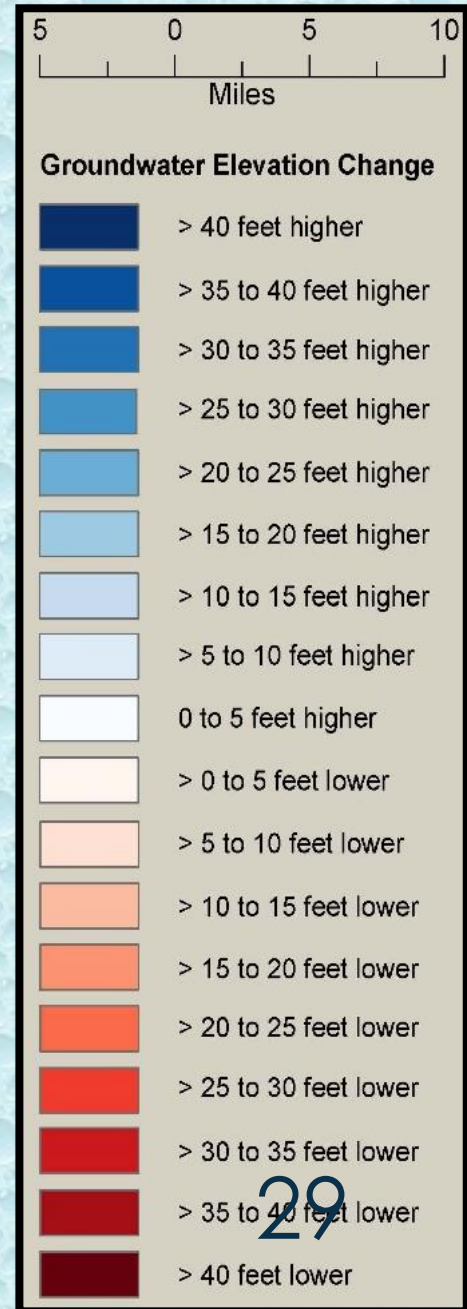


Well Depths

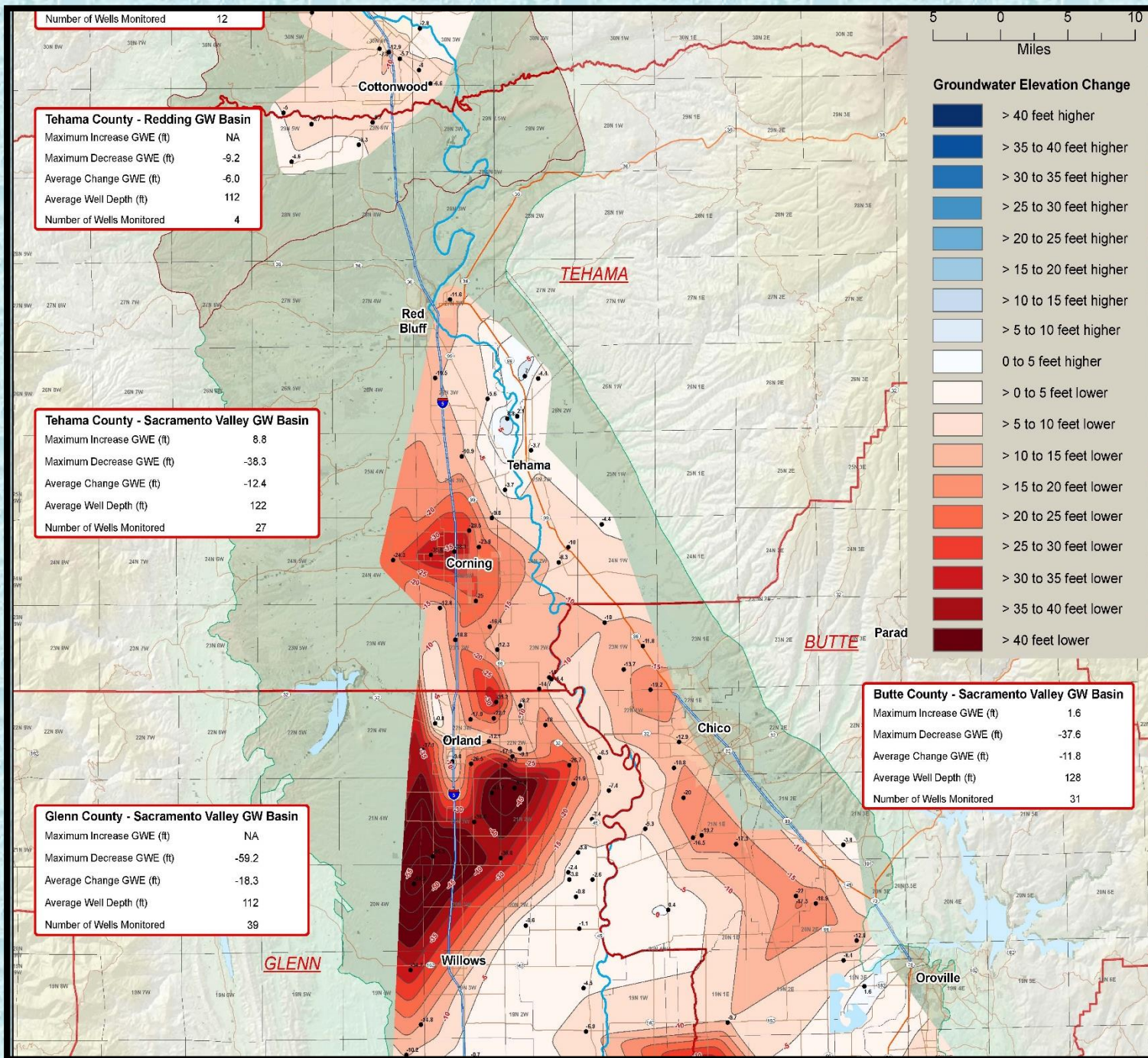
- Less than 200 ft BGS
- Between 200-600 ft BGS
- Deeper than 600 ft BGS

Years

- 2004-2015
- 2010-2015
- 2014-2015

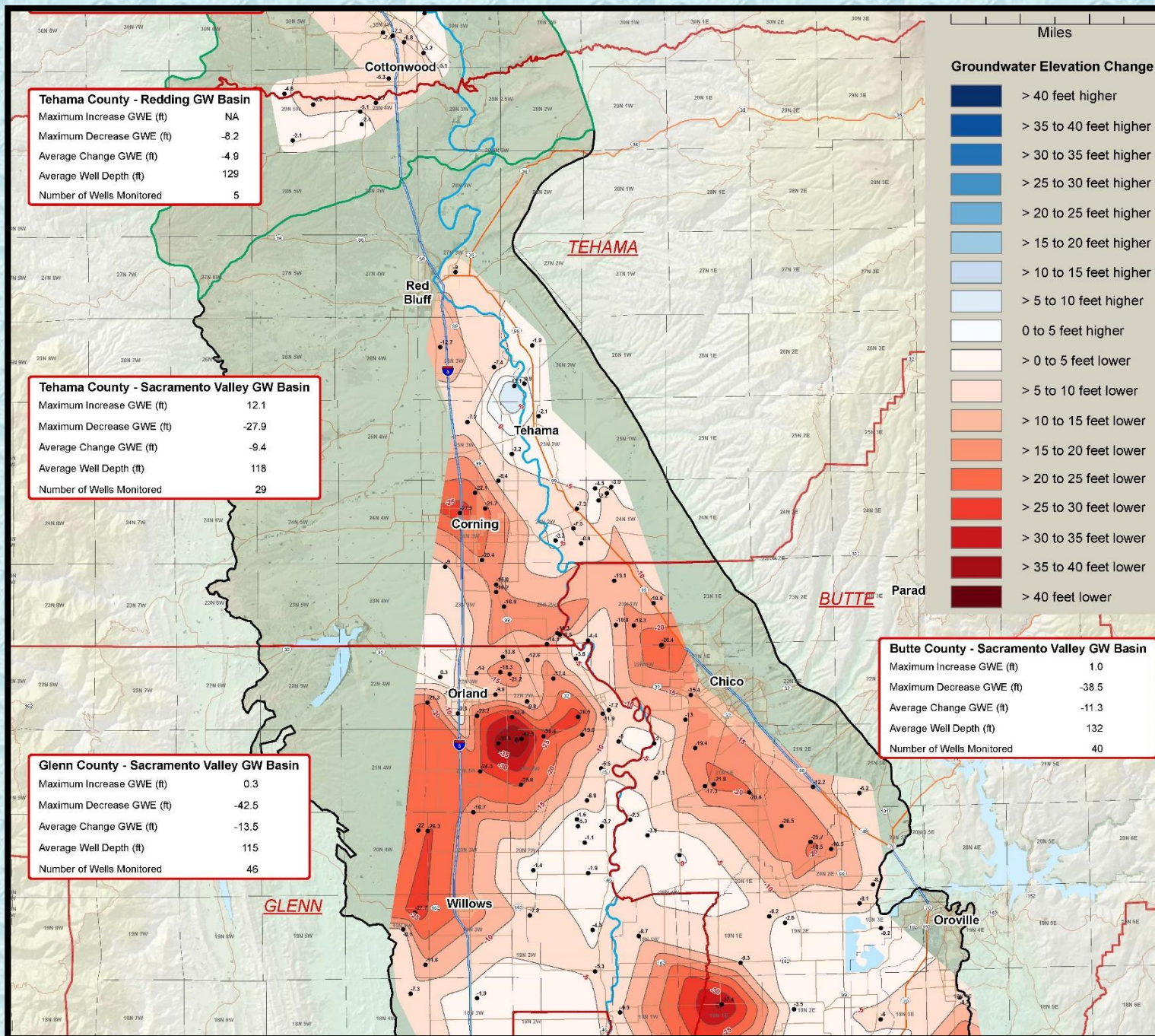






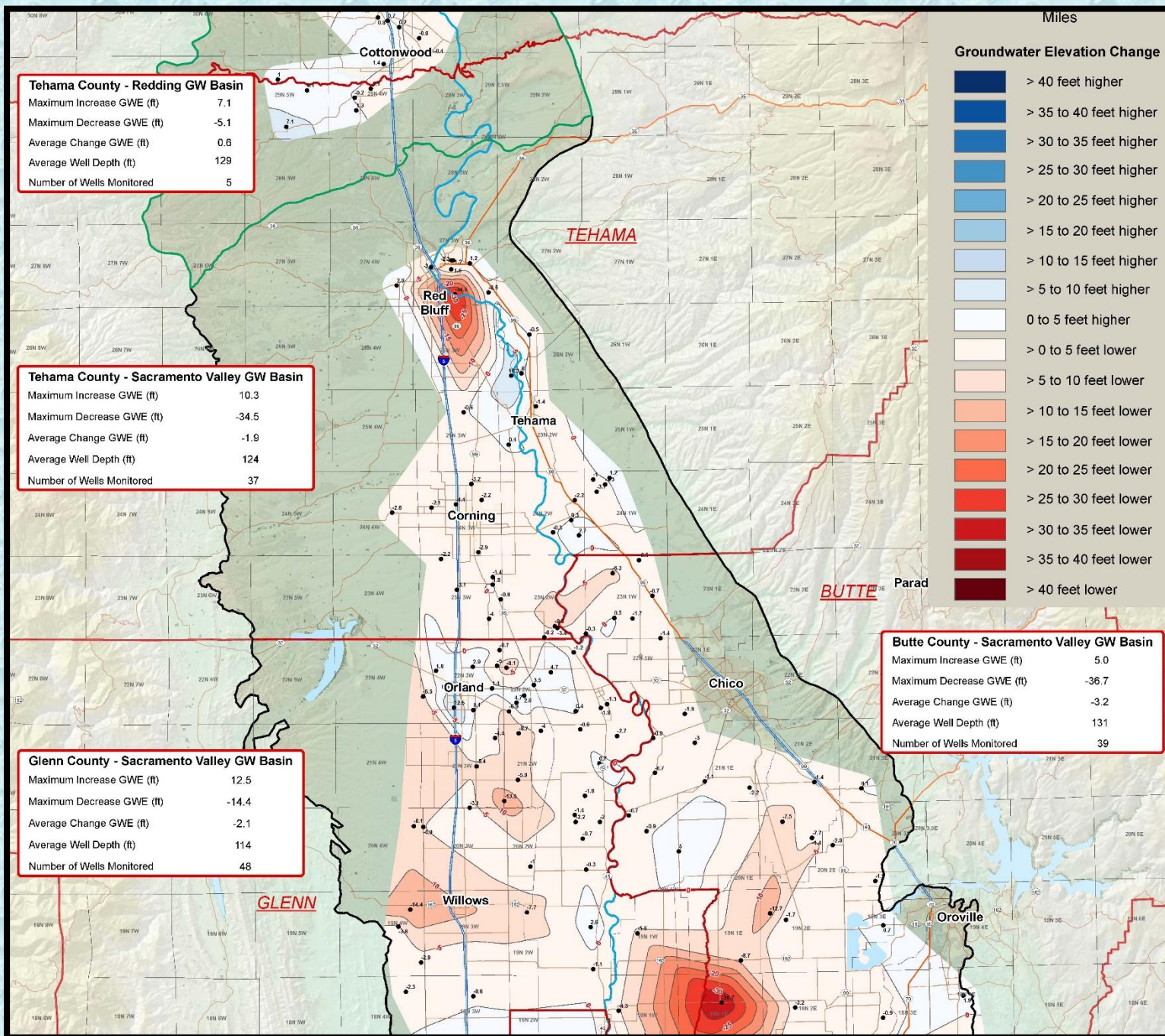
SHALLOW GROUNDWATER LEVEL CHANGE MAPS 2004-2015

Wells less than 200 ft BGS



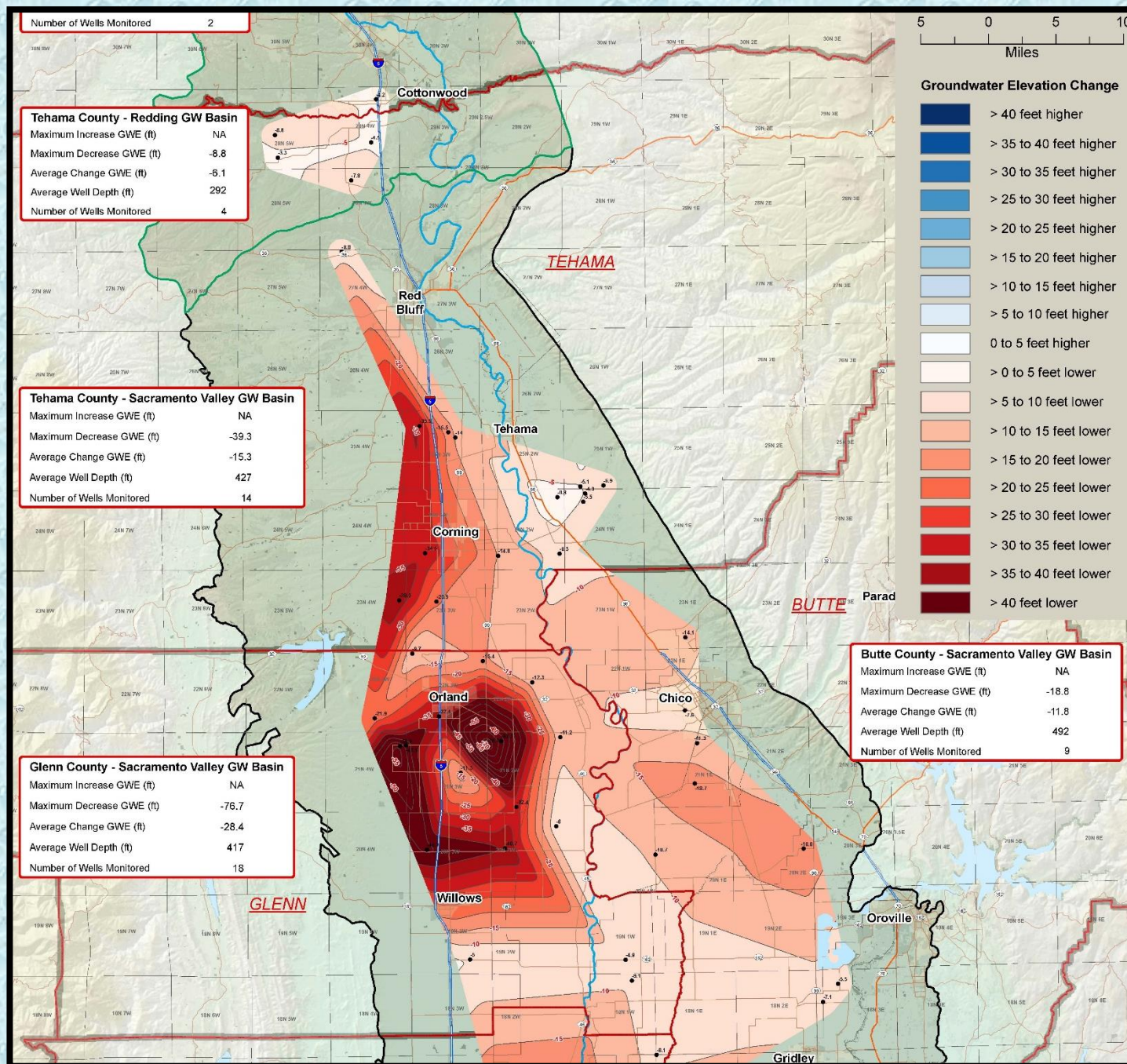
SHALLOW GROUNDWATER LEVEL CHANGE MAPS 2011-2015

Wells less than 200 ft BGS



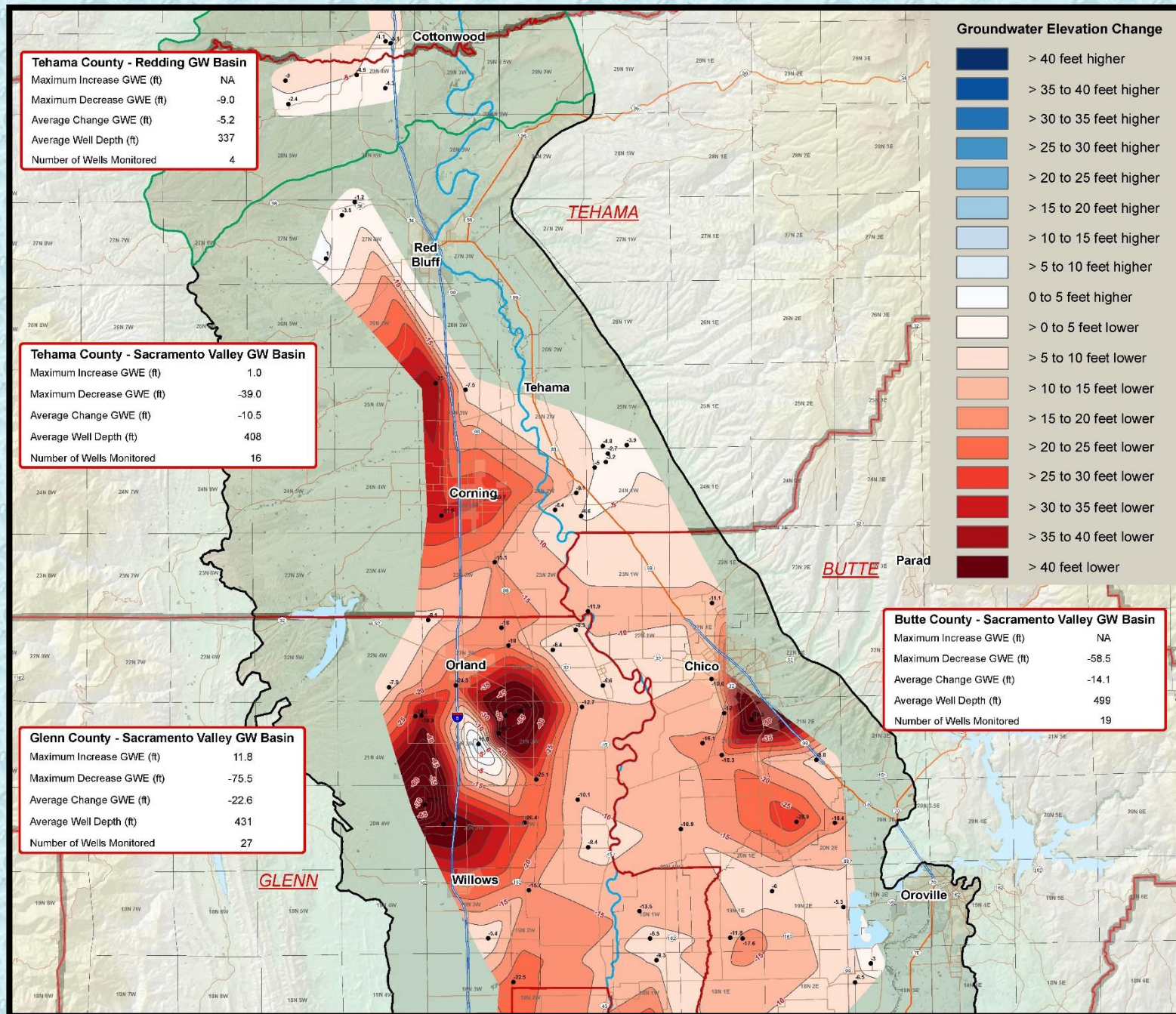
SHALLOW GROUNDWATER LEVEL CHANGE MAPS 2014-2015

Wells less than 200 ft BGS



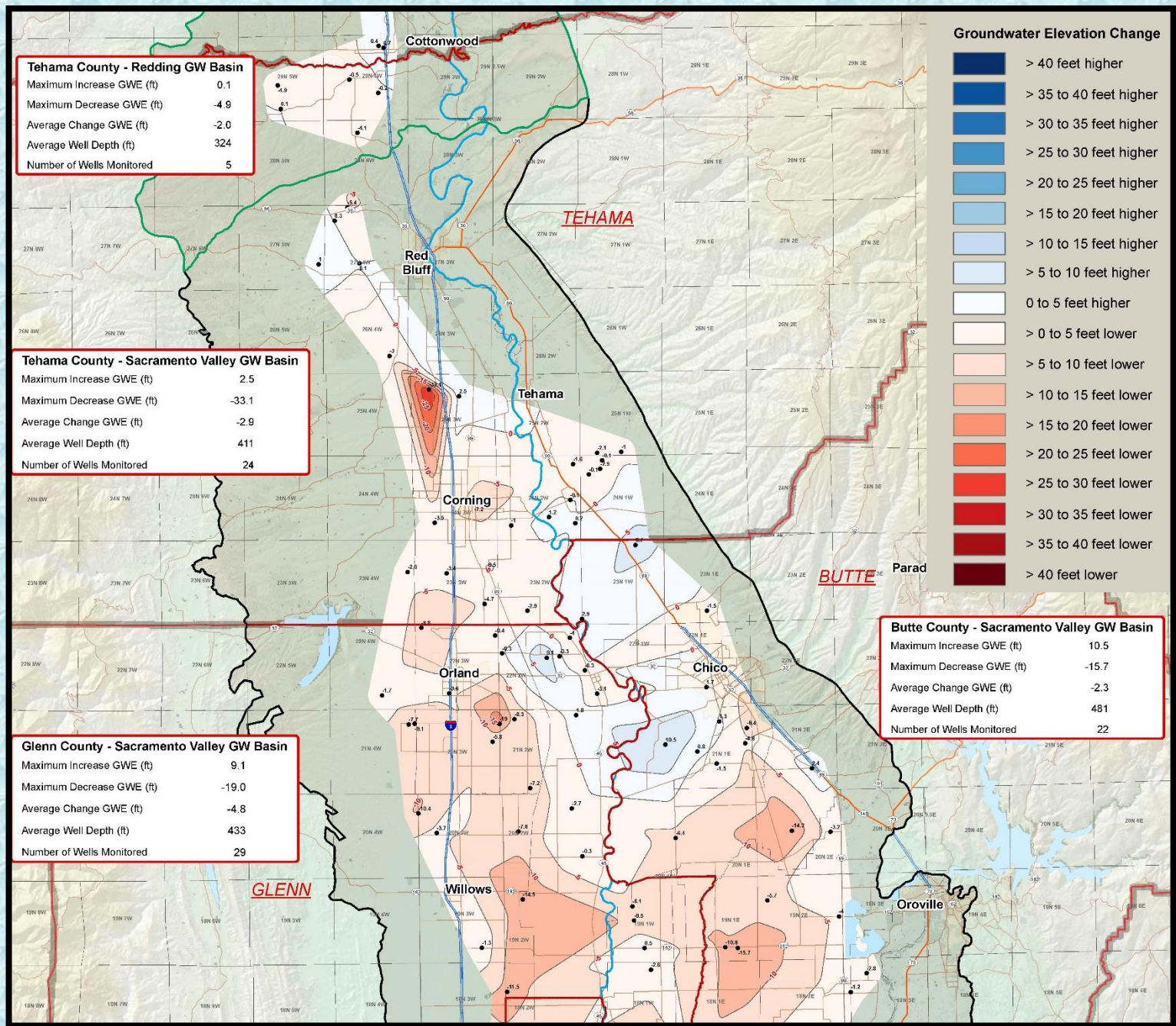
INTERMEDIATE GROUNDWATER LEVEL CHANGE MAPS 2004-2015

Wells greater than 200 ft
and less than 600 ft BGS



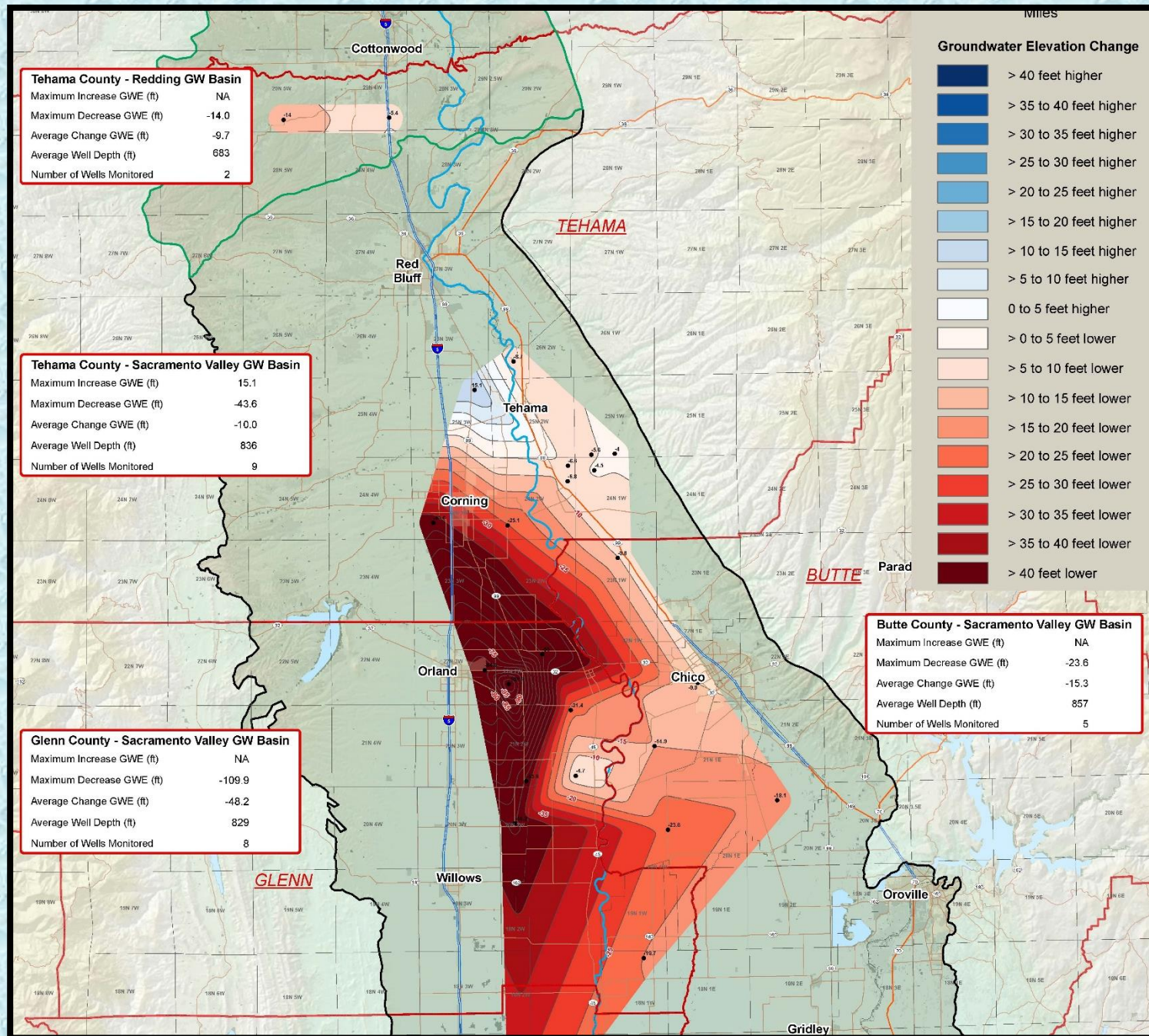
INTERMEDIATE GROUNDWATER LEVEL CHANGE MAPS 2011-2015

Wells greater than 200 ft
and less than 600 ft BGS



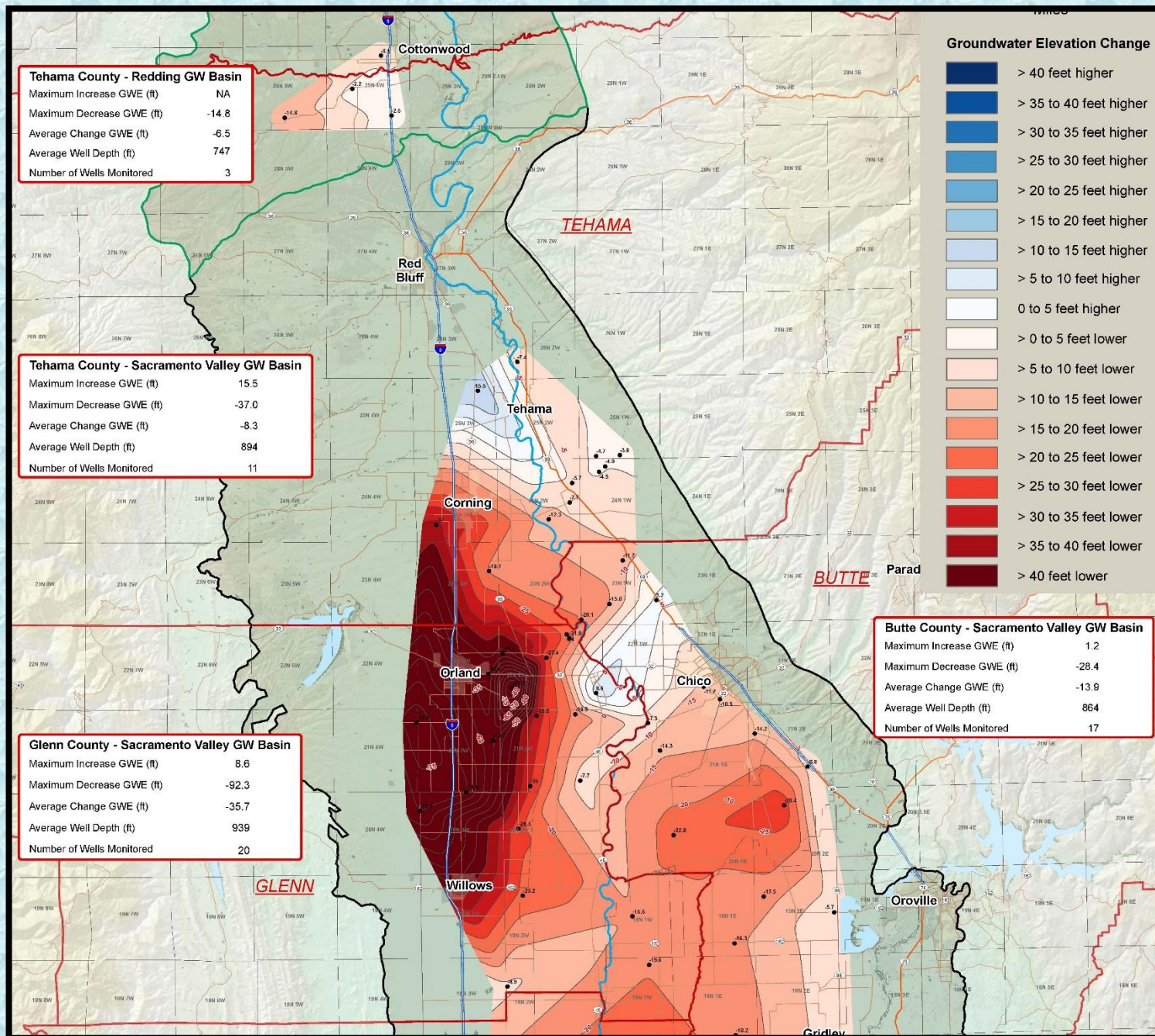
INTERMEDIATE GROUNDWATER LEVEL CHANGE MAPS 2014-2015

Wells greater than 200 ft
and less than 600 ft BGS



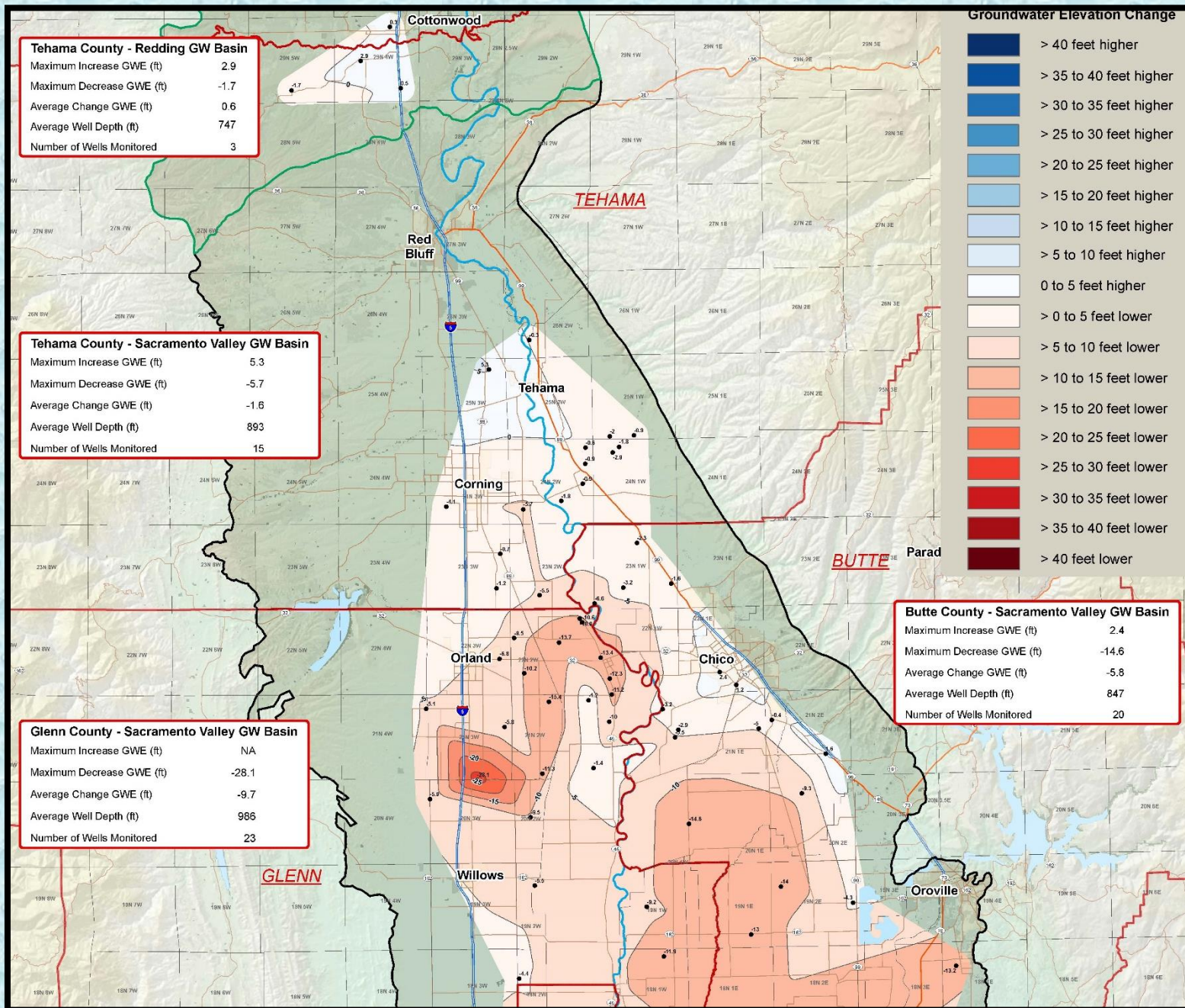
DEEP GROUNDWATER LEVEL CHANGE MAPS 2004-2015

Wells greater 600 ft BGS



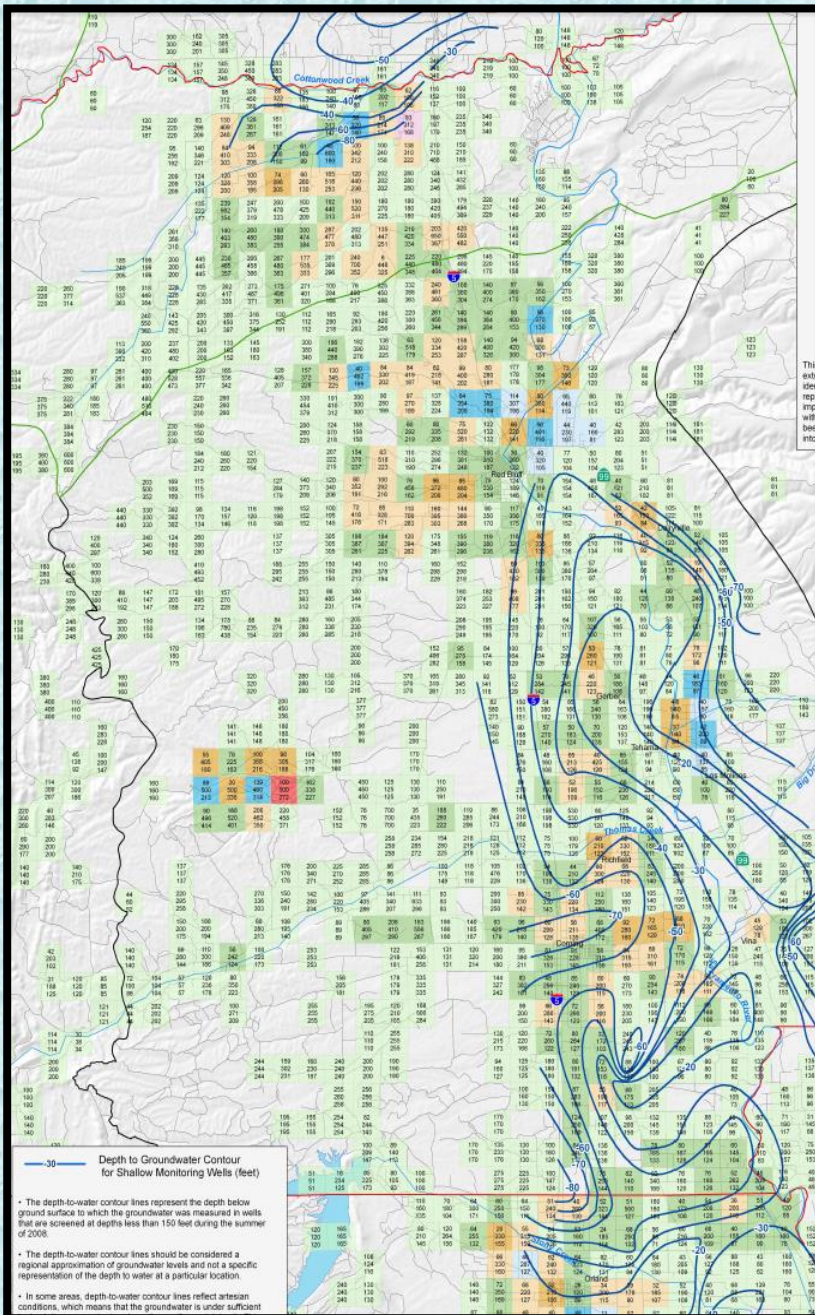
DEEP GROUNDWATER LEVEL CHANGE MAPS 2011-2015

Wells greater 600 ft BGS



DEEP GROUNDWATER LEVEL CHANGE MAPS 2014-2015

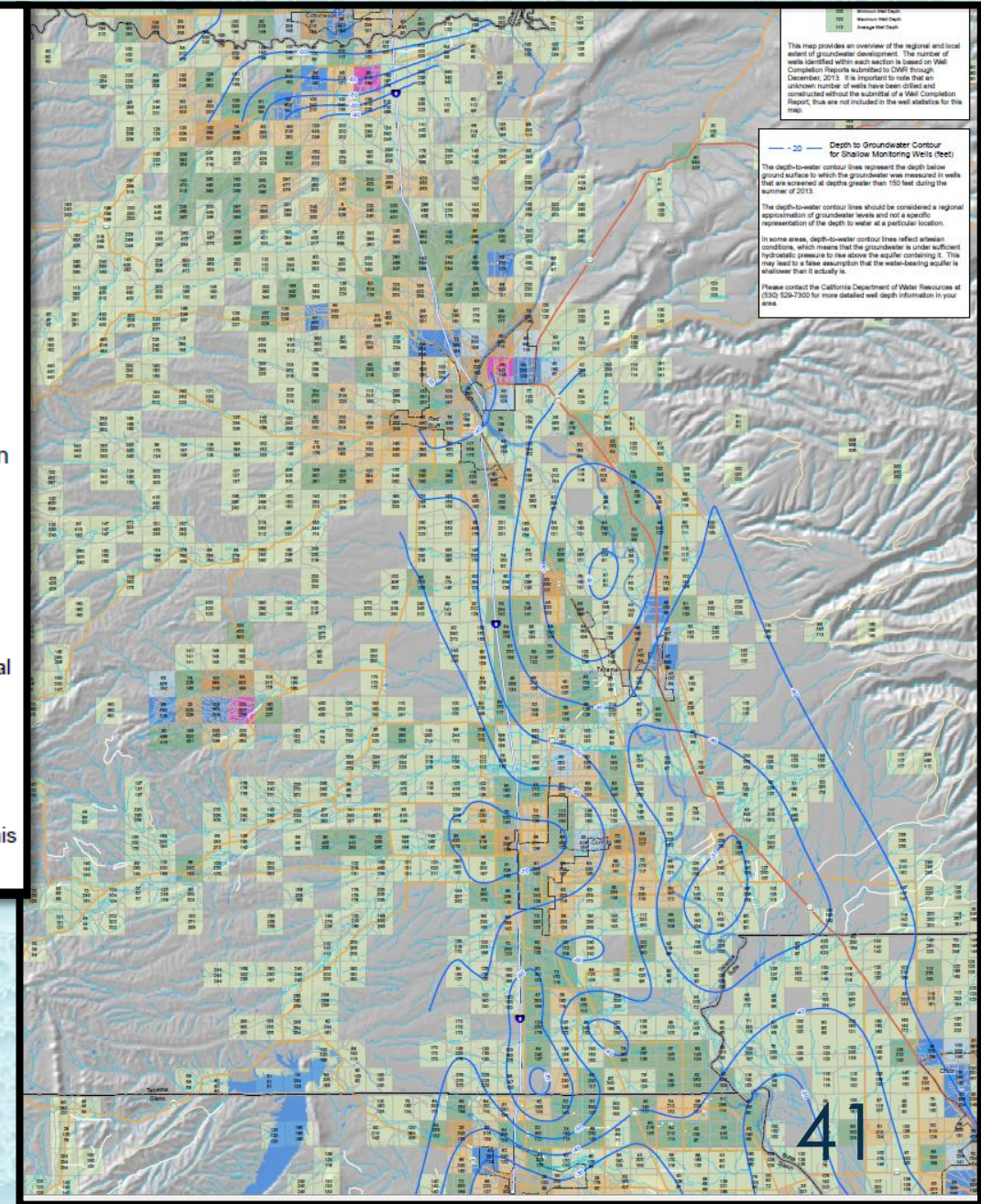
Wells greater 600 ft BGS



2009

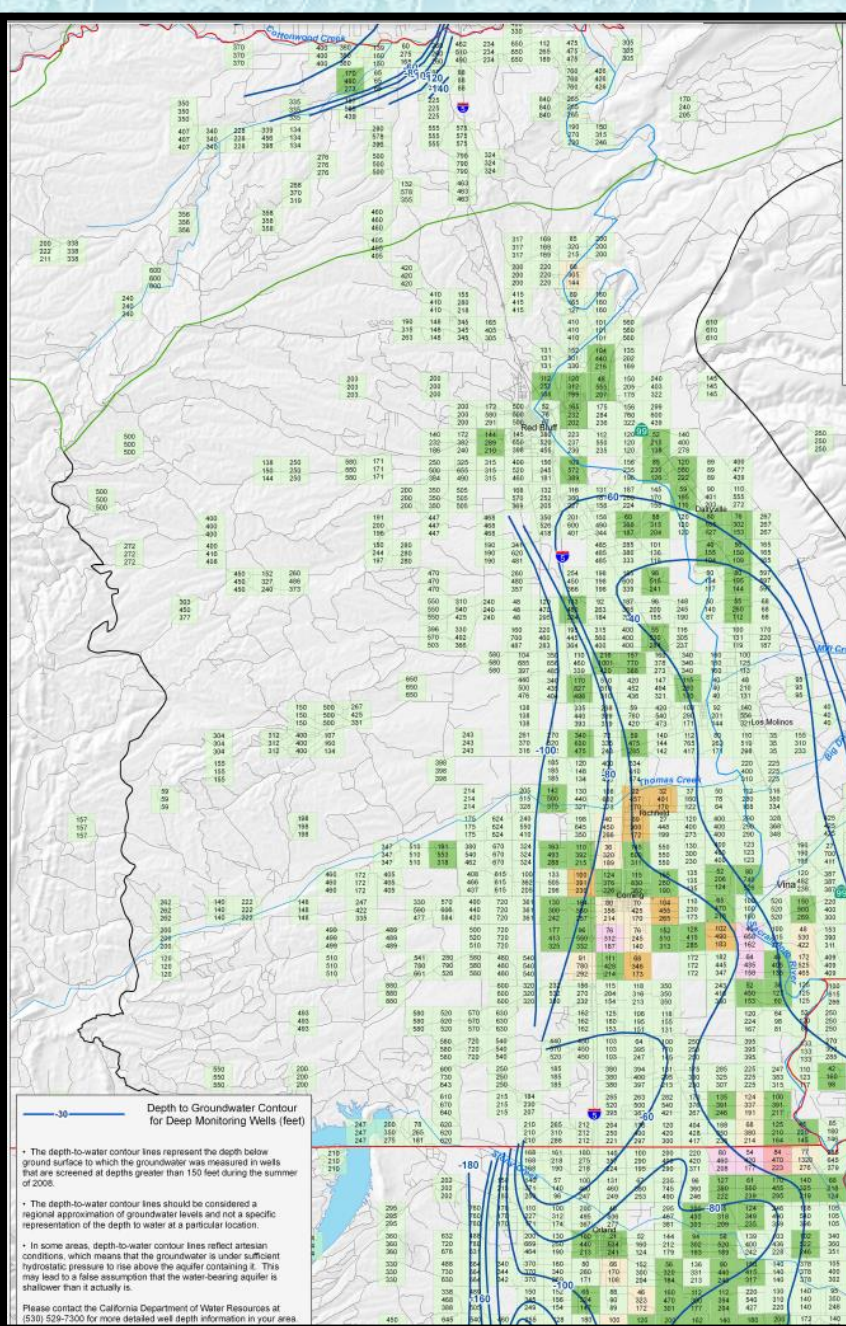
**Wells screened
<150ft**

Maps courtesy of DWR

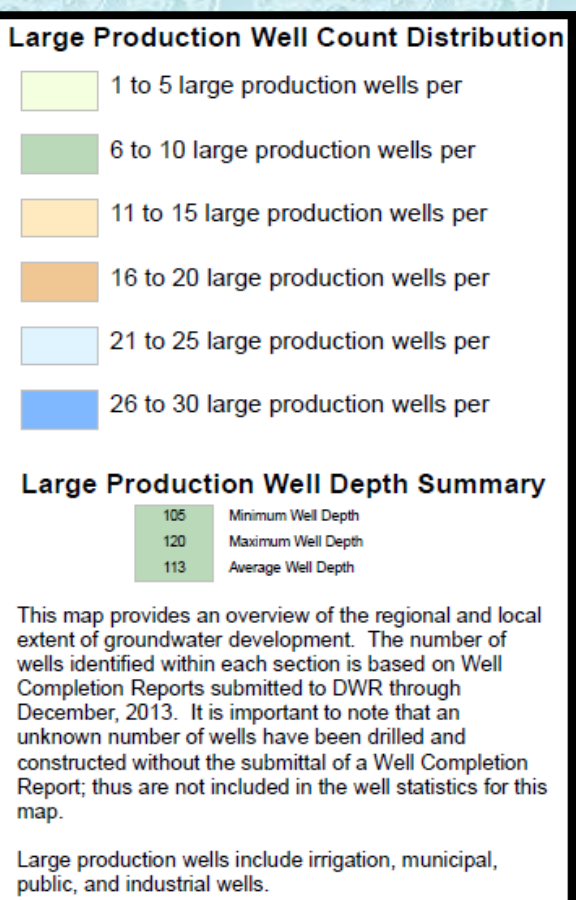


2013

41



2009



Maps courtesy of DWR

2013

Wells
screened
>150ft

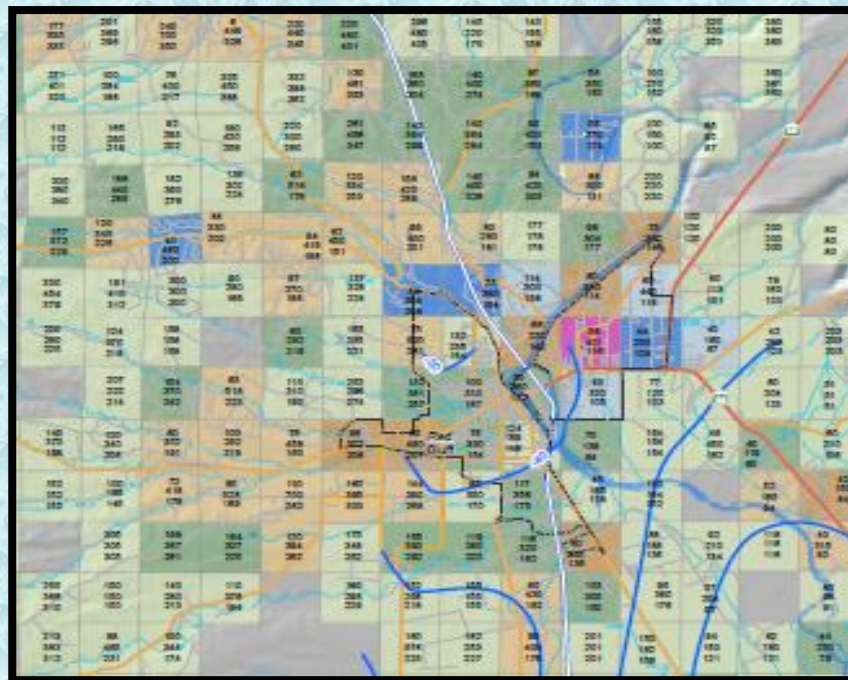


2009

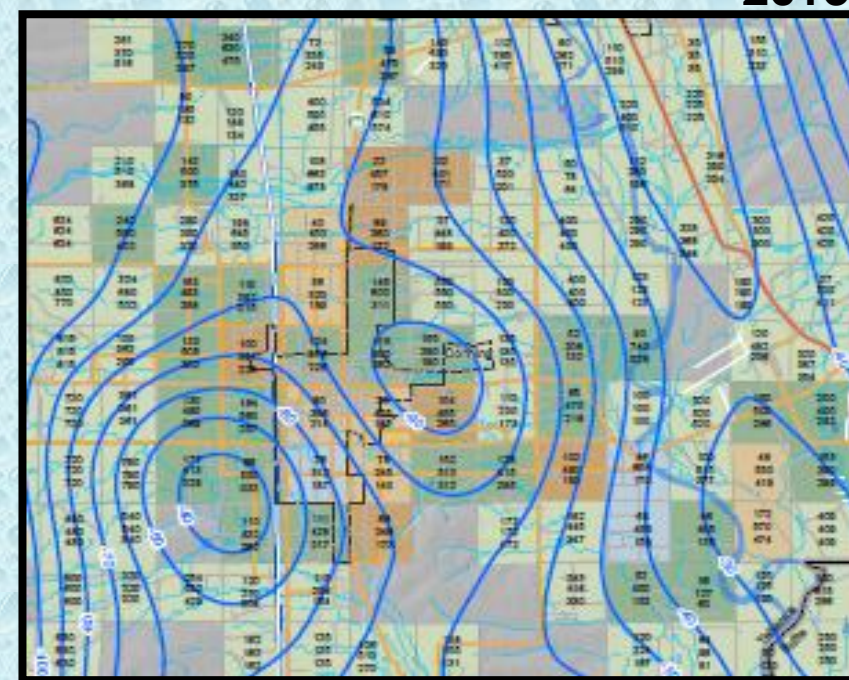


2009

Wells screened greater than 150 ft



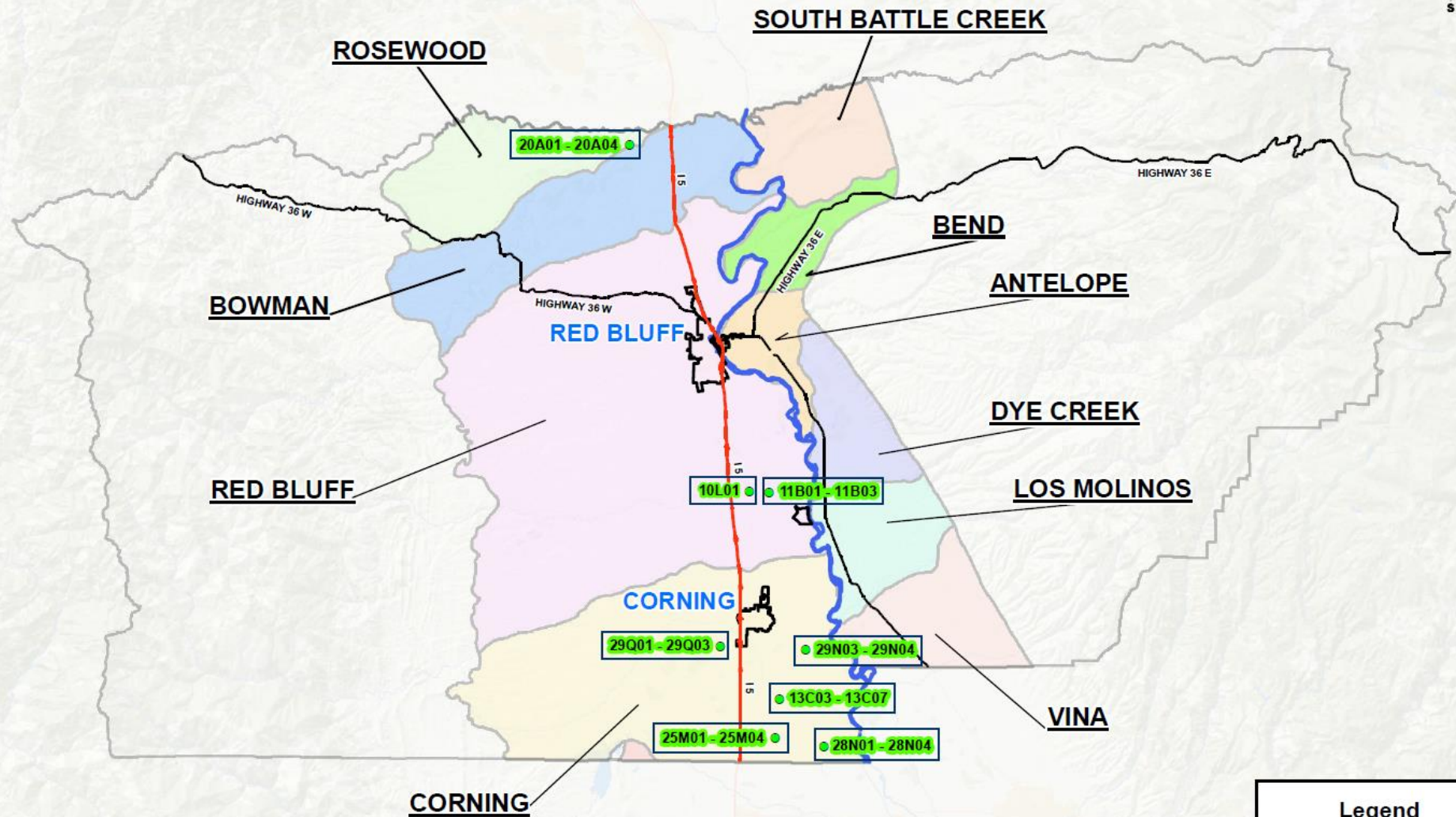
2013



2013

Wells screened less than 150 ft

TEHAMA COUNTY GROUNDWATER MONITORING WELLS

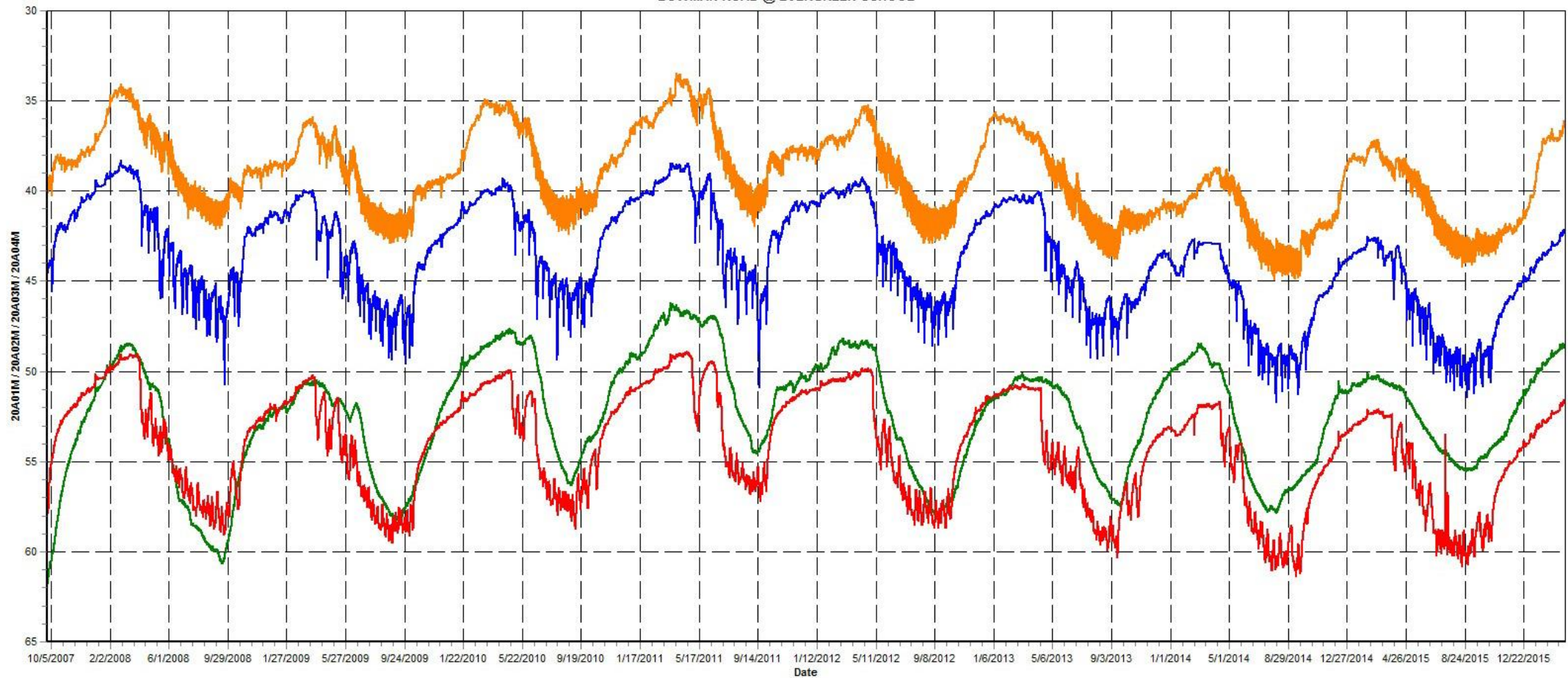


Legend

- Tehama County Wells

Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors

TEHAMA COUNTY GROUNDWATER MONITORING
29N04W20A01M - 29N04W20A04M
BOWMAN ROAD @ EVERGREEN SCHOOL



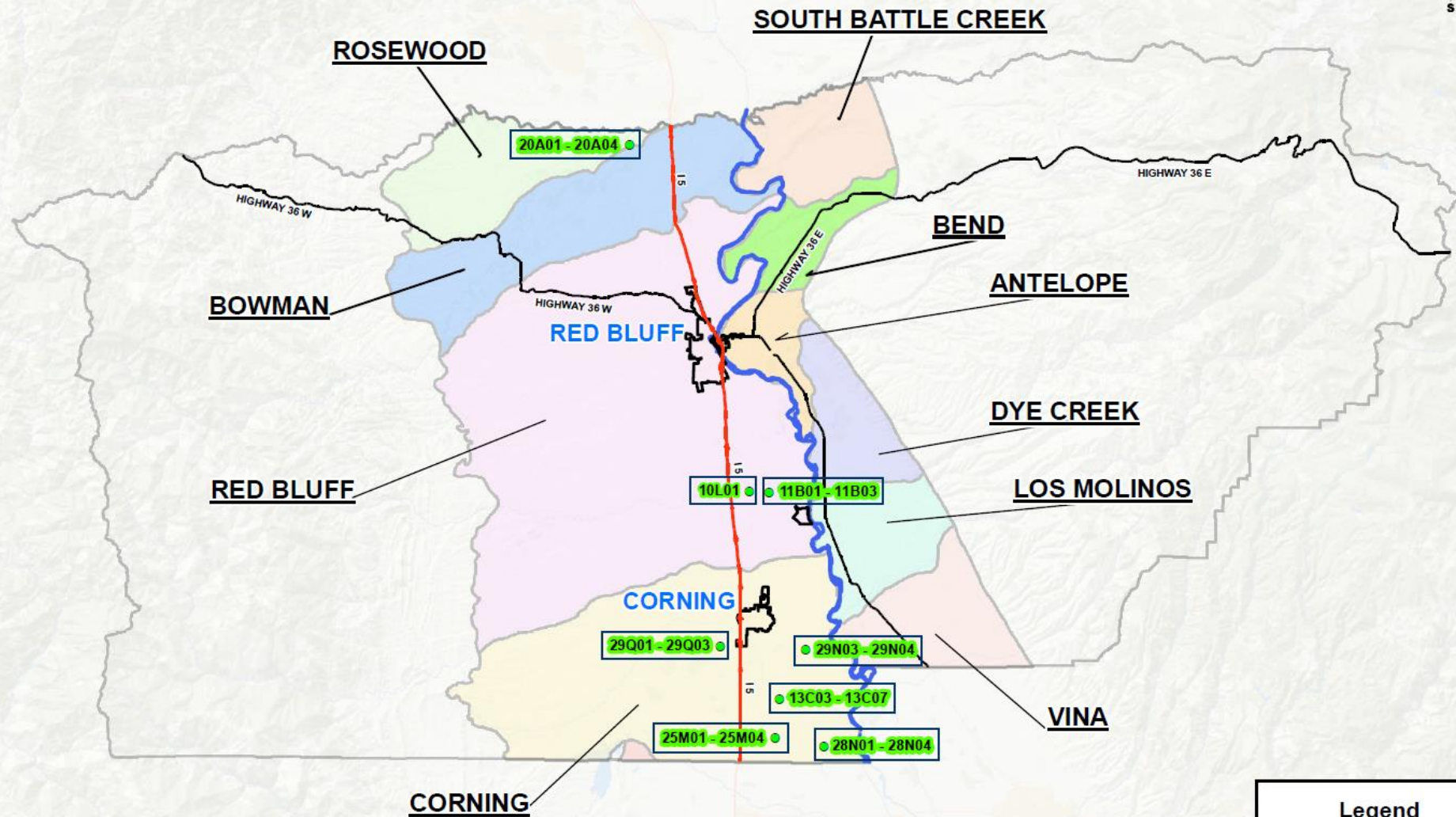
20A01M: 876'
PERFORATION INTERVALS:
755'-765' & 805'-815' & 845'-855'

20A02M: 451'
PERFORATION INTERVALS:
360'-370' & 380'-390' & 420'-430'

20A03M: 194'
PERFORATION INTERVALS:
179'-189' & 154'-164'

20A04M: 76'
PERFORATION INTERVAL:
50'-60'

TEHAMA COUNTY GROUNDWATER MONITORING WELLS

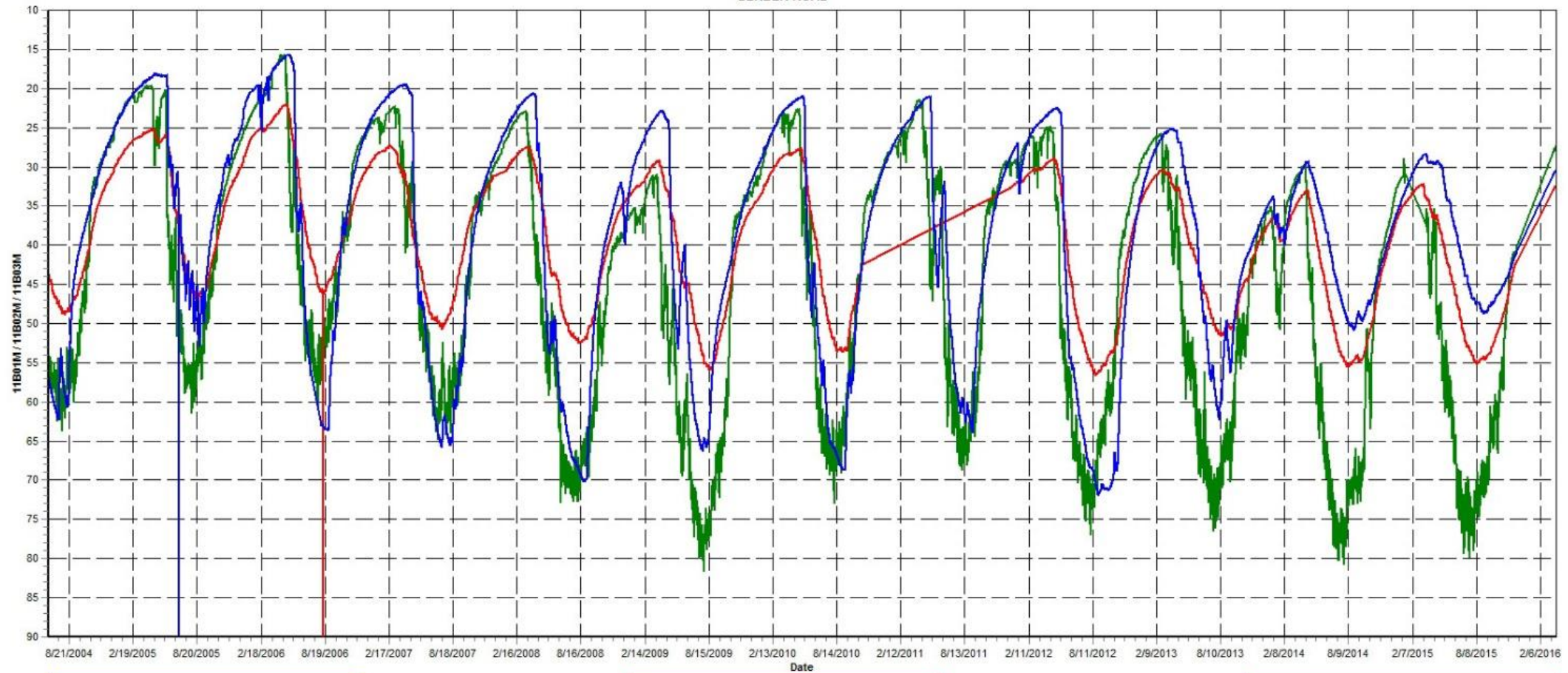


Legend

● Tehama County Wells

Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors

TEHAMA COUNTY GROUNDWATER MONITORING
25N03W11B01M - 25N03W11B03M
GERBER ROAD

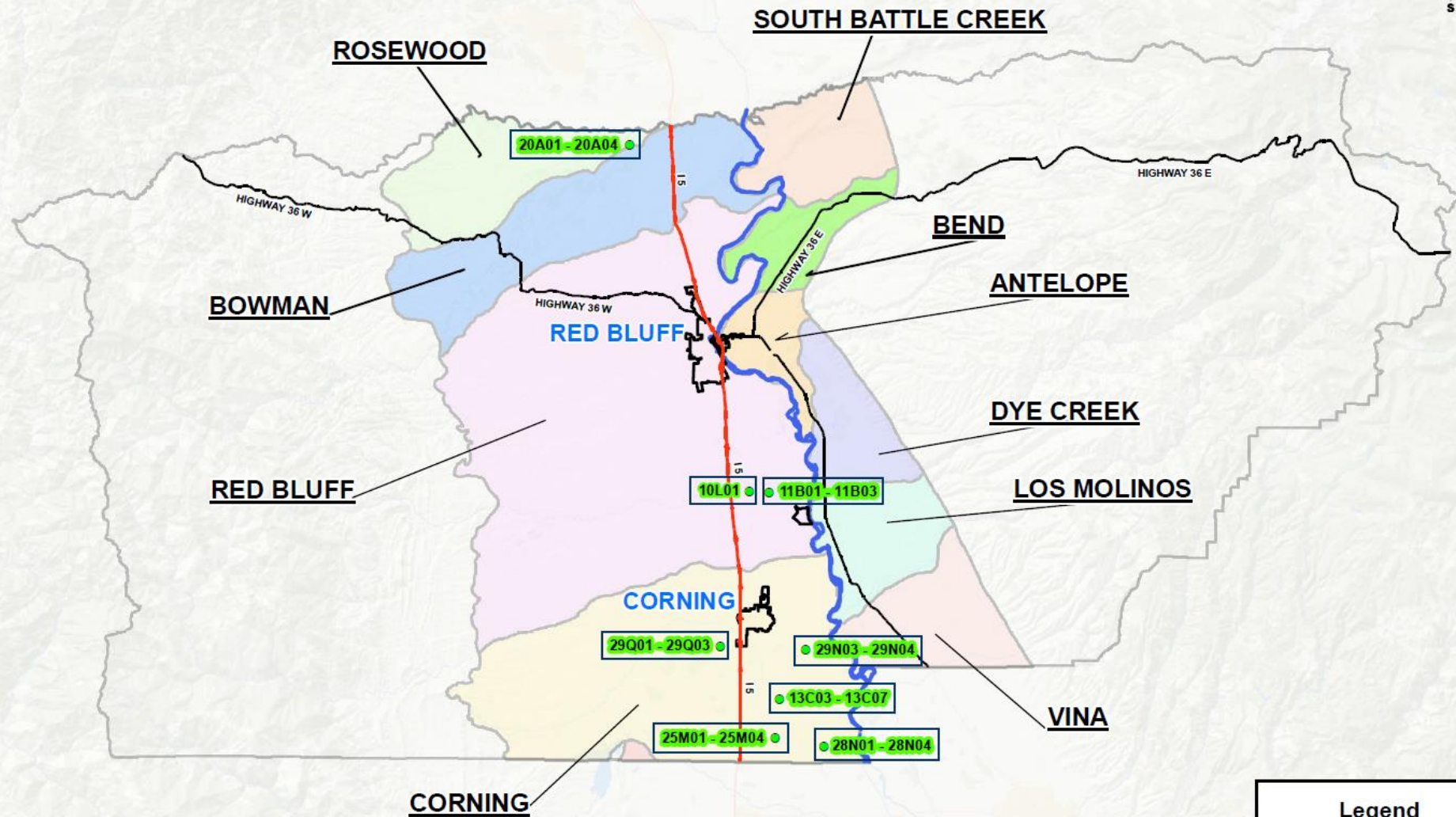


11B03M: 1000'
PERFORATED INTERVAL:
940'-960'

11B02M: 789'
PERFORATED INTERVALS:
680'-690' & 740'-750'

11B01M: 255'
PERFORATED INTERVALS:
170'-180' & 150'-160'

TEHAMA COUNTY GROUNDWATER MONITORING WELLS

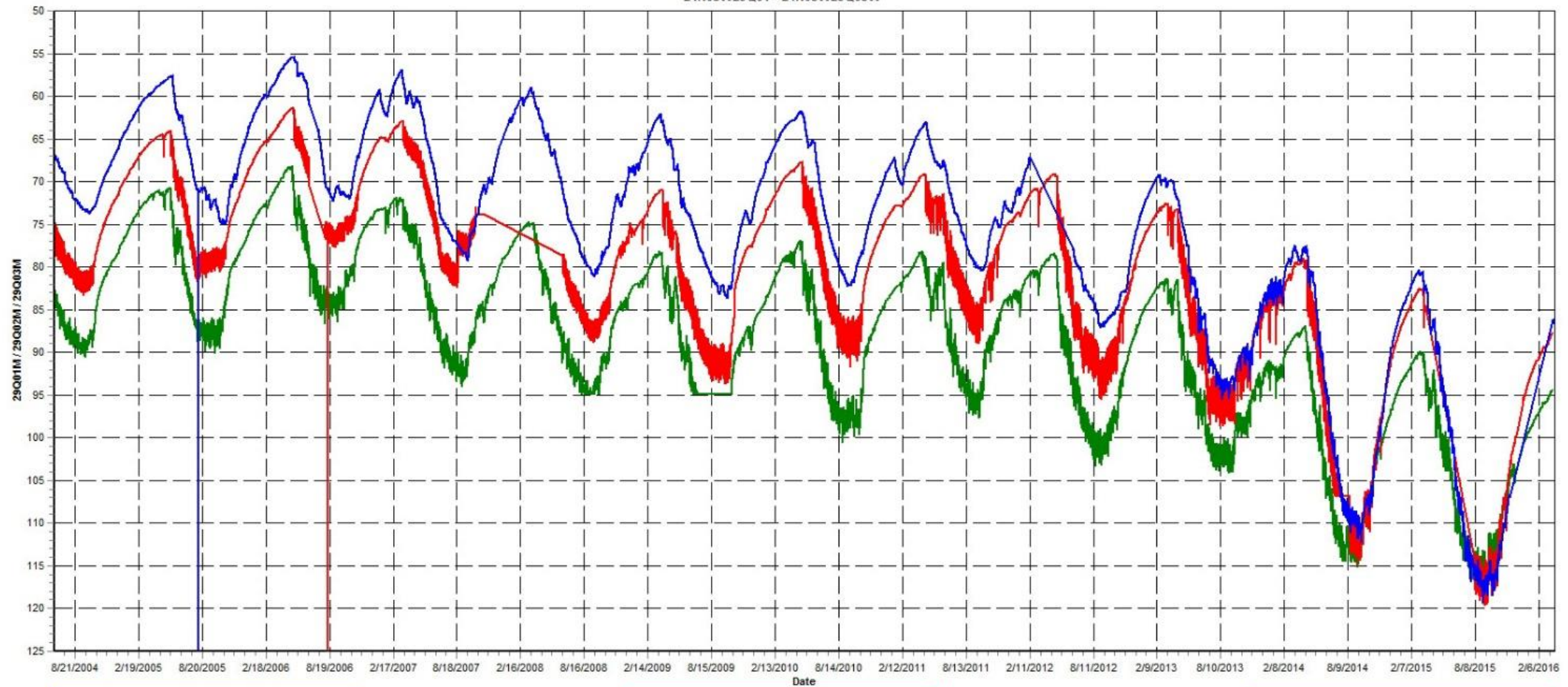


Legend

- Tehama County Wells

Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors

TEHAMA COUNTY GROUNDWATER MONITORING
24N03W29Q01 - 24N03W29Q03W

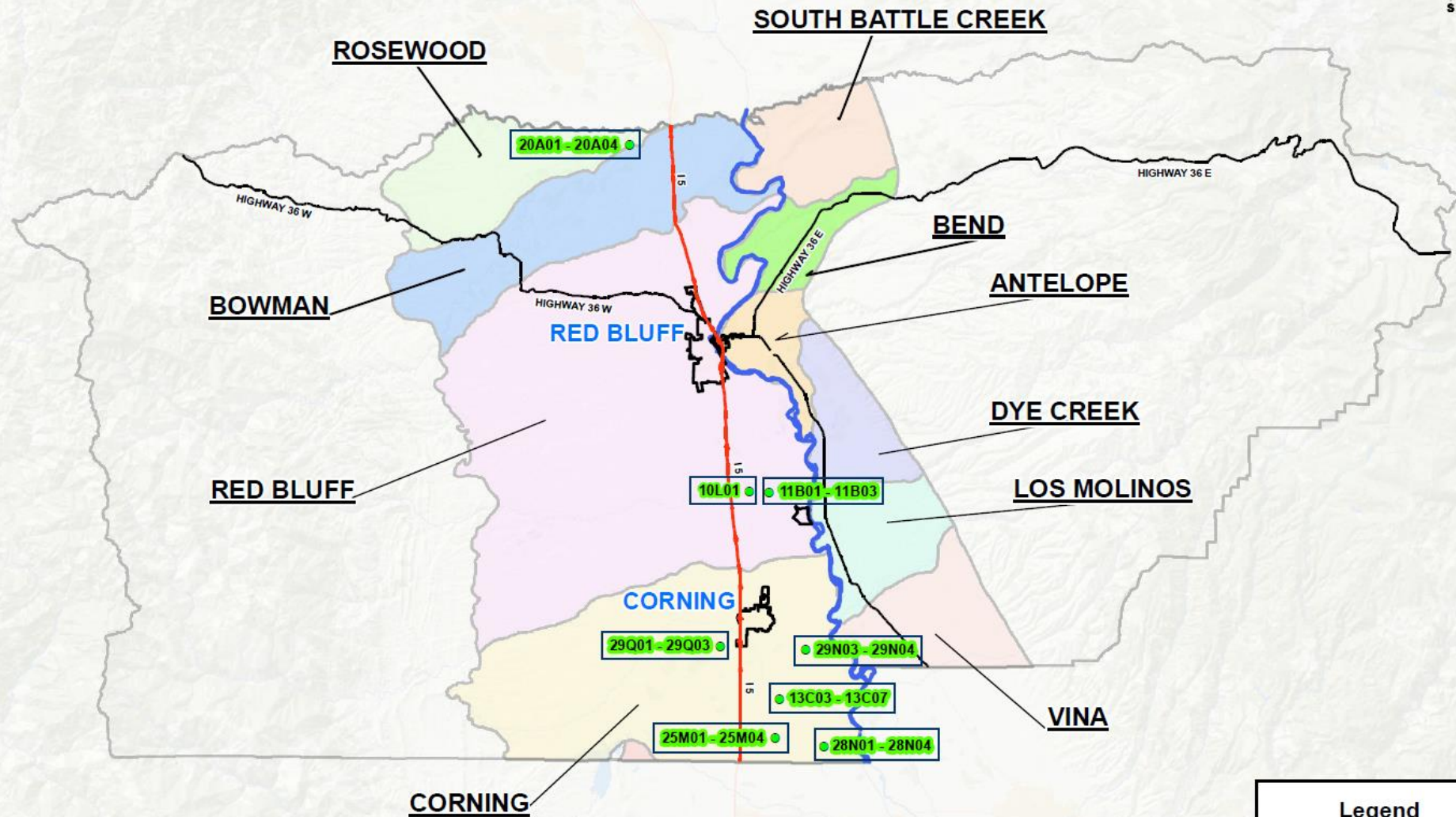


29Q03M: 844'
PERFORATED INTERVALS:
650'-660' & 700'-710'

29Q02M: 575'
PERFORATED INTERVALS:
490'-500' & 540'-550'

29Q01M: 372'
PERFORATED INTERVALS:
130'-140' & 230'-240' & 190'-200'
& 280'-290' & 350'-360'

TEHAMA COUNTY GROUNDWATER MONITORING WELLS

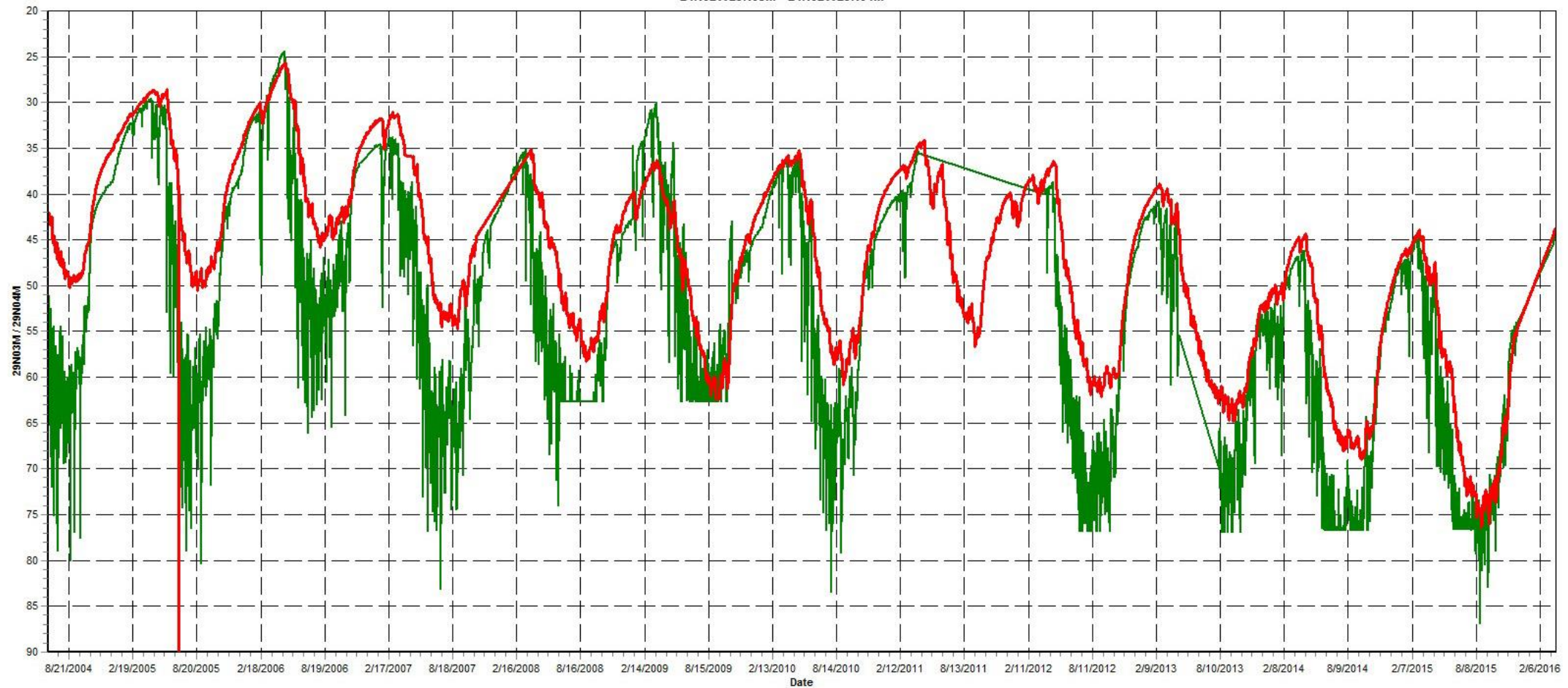


Legend

- Tehama County Wells

Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors

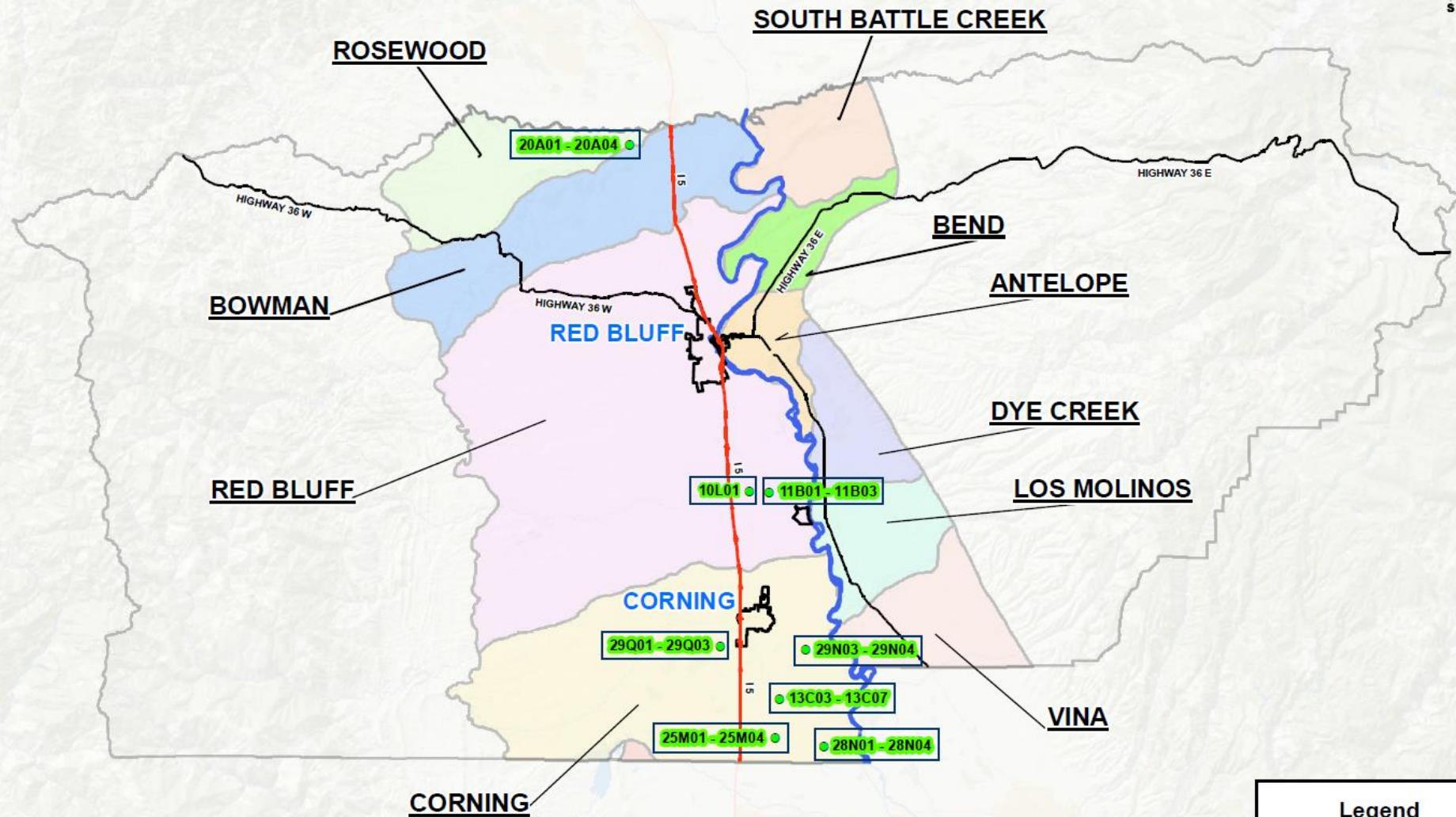
TEHAMA COUNTY GROUNDWATER MONITORING
24N02W29N03M - 24N02W29N04M



29N04M: 741'
PERFORATION INTERVALS:
590'-600' & 640'-650' & 700'-710'

29N03M: 388'
PERFORATION INTERVALS:
200'-210' & 250'-260' & 280'-290'

TEHAMA COUNTY GROUNDWATER MONITORING WELLS

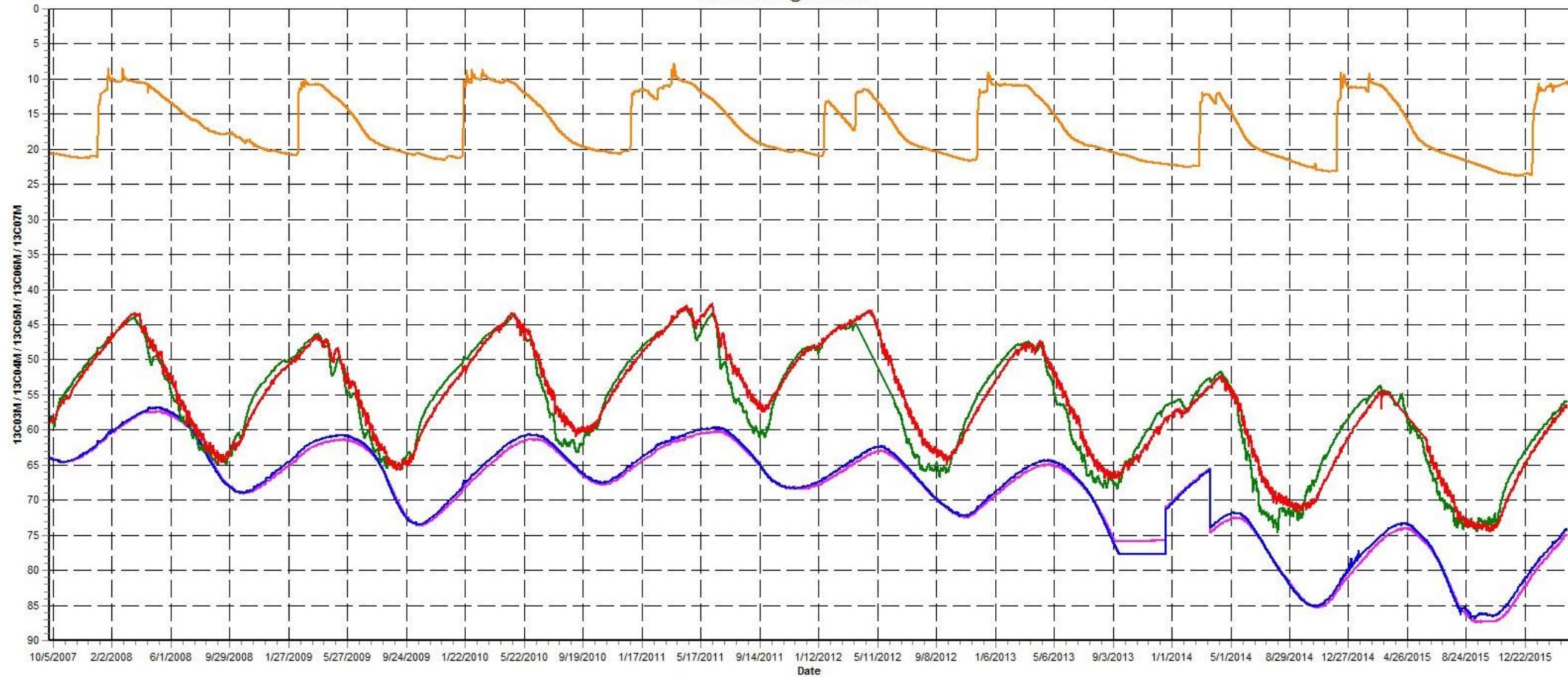


Legend

- Tehama County Wells

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TEHAMA COUNTY GROUNDWATER MONITORING
23N03W13C03M - 23N03W13C07M
CAPAY ROAD @ HALL ROAD



13C03M: 980'
PERFORATION INTERVALS:
900'-910' & 960'-970'

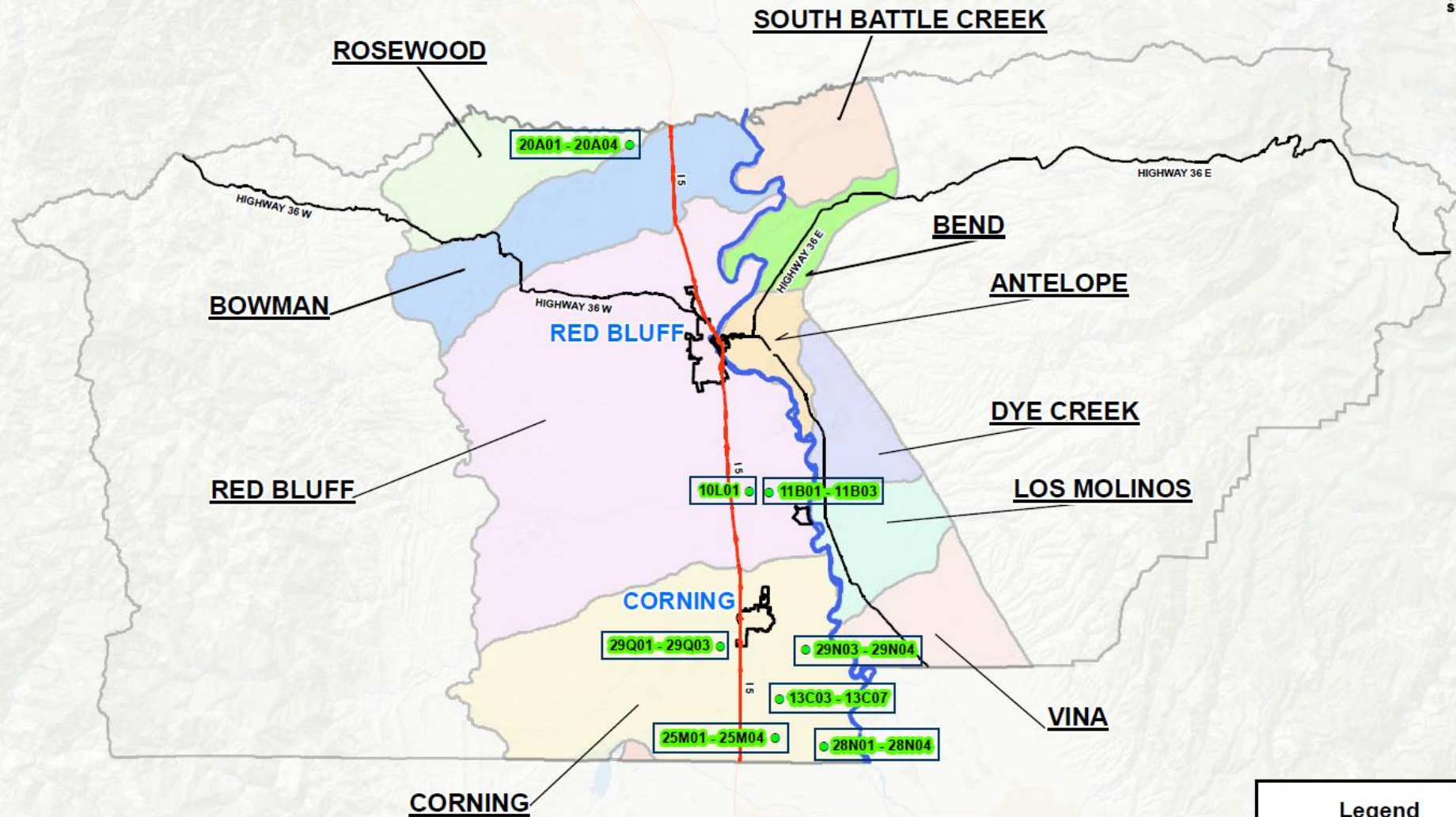
13C04M: 835'
PERFORATION INTERVAL:
815'-825'

13C05M: 381'
PERFORATION INTERVAL:
345'-355'

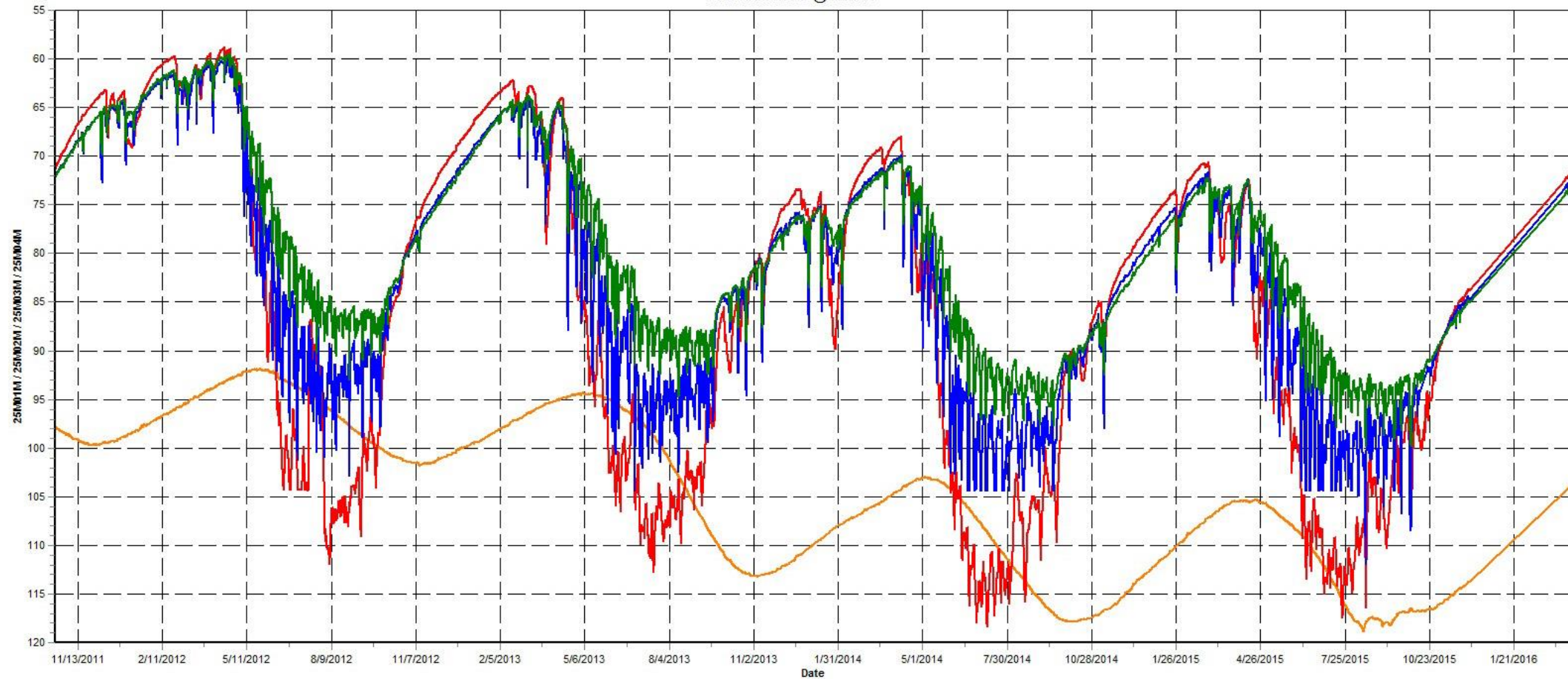
13C06M: 182'
PERFORATION INTERVALS:
125'-135' & 95'-105'

13C07M: 71'
PERFORATION INTERVAL:
25'-35'

TEHAMA COUNTY GROUNDWATER MONITORING WELLS



TEHAMA COUNTY GROUNDWATER MONITORING
23N03W25M01M - 23N03W25M04M
INGHRAM ROAD @ CANAL



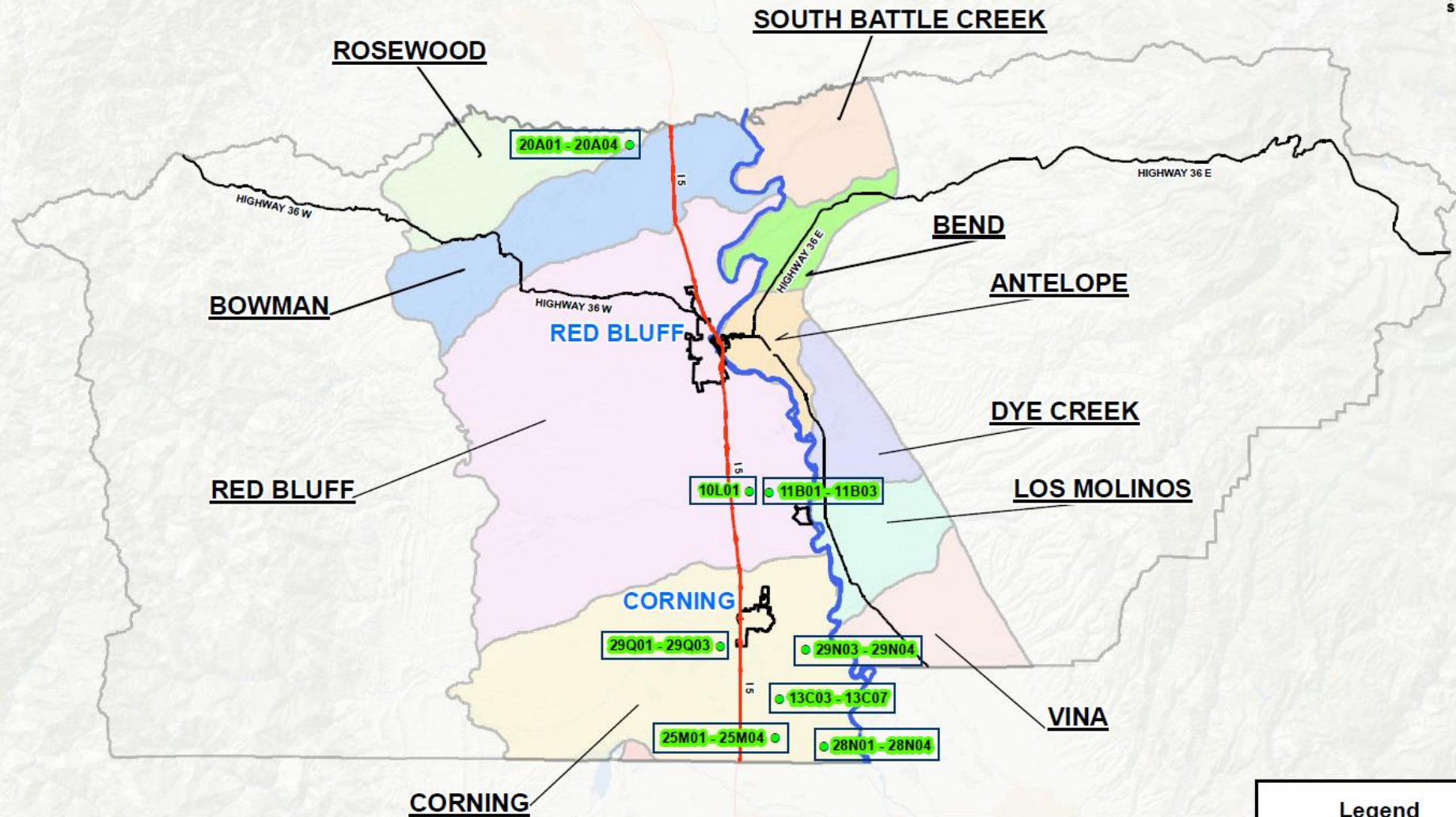
25M01M: 988'
PERFORATION INTERVAL:
965'-975'

25M02M: 513'
PERFORATION INTERVAL:
470'-500'

25M03M: 262'
PERFORATION INTERVAL:
240'-250'

25M04M: 155'
PERFORATION INTERVAL:
120'-130'

TEHAMA COUNTY GROUNDWATER MONITORING WELLS

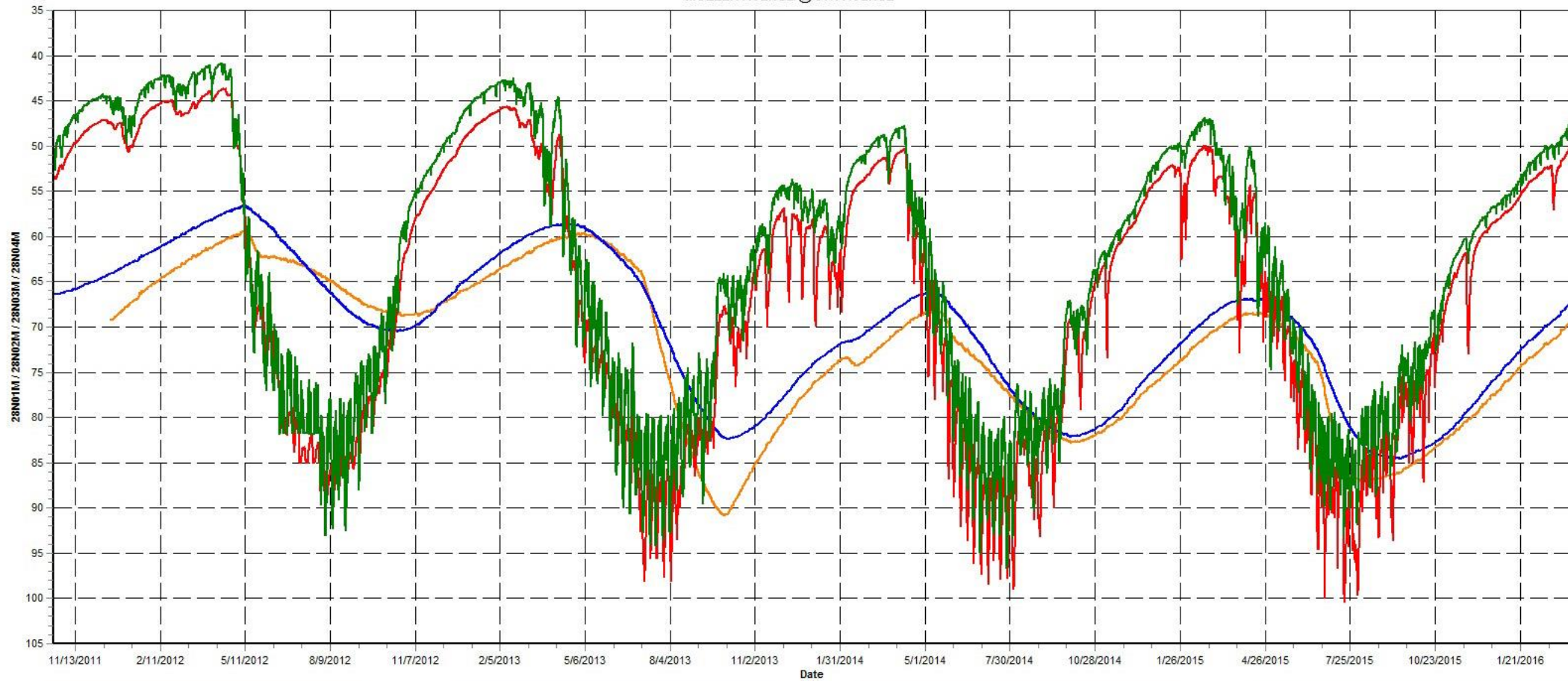


Legend

- Tehama County Wells

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TEHAMA COUNTY GROUNDWATER MONITORING
23N02W28N01M - 23N02W28N04M
MOLLER AVENUE @ 5TH AVENUE



28N01M: 970'
PERFORATION INTERVAL:
910'-950'

28N02M: 580'
PERFORATION INTERVAL:
550'-570'

28N03M: 370'
PERFORATION INTERVAL:
330'-350'

28N04M: 205'
PERFORATION INTERVALS:
160'-170' & 100'-110'

Questions

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Tehama County FCWCD:

<http://www.tehamacountywater.ca.gov>

DWR:

http://www.water.ca.gov/groundwater/data_and_monitoring/northern_region/groundwaterlevel/gw_level_monitoring.cfm#well